



Omega Scientific Instruments Pvt. Ltd.

Aseptic Processing

Bio Reactors

Fermenters

*Pharmaceutical
waters*

CIP/SIP/COP

*Your Trusted Aseptic BioProcess
Equipment Manufacturer*

A brief introduction of OSIPL:

- Technocrats with passion for Pharma Biotech modules
- Strong Design capabilities (ASME BPE, Schedule M, WHO,cGMP, FDA compliance)
- Excellent Biopharma installation capabilities
- Unmatched service support, cost effective flexible modules of service support
- Extremely top notch Fabrication skills SS-316L Application support out of the box approach
- 20 plus years of experience in the biotechnology industry

Meet our Team!



Mr Lenin Babu,
Managing Director
Operations, Design Head

- 30 plus years of experience in Pharmaceutical Industry
- University ranker In Biotechnology
- Vast experience in Biotechnology MNCs

- 30 plus years of experience in Pharmaceutical Industry
 - University ranker In Biotechnology
- Vast experience in Biotechnology MNCs
 - IIT Kharagpur, M.Tech, Chemical



Mr S.S. Das
Vice President,
Fermentation, New
initiatives



Omega Scientific Instruments Pvt. Ltd.

We are all about quality, to be precise...

- Design Team
- Automation Team
- Sales & coordination team
- Finance team
- QA/QC team
- Factory Team
- Stores
- Documentation team
- Service & Installation Team

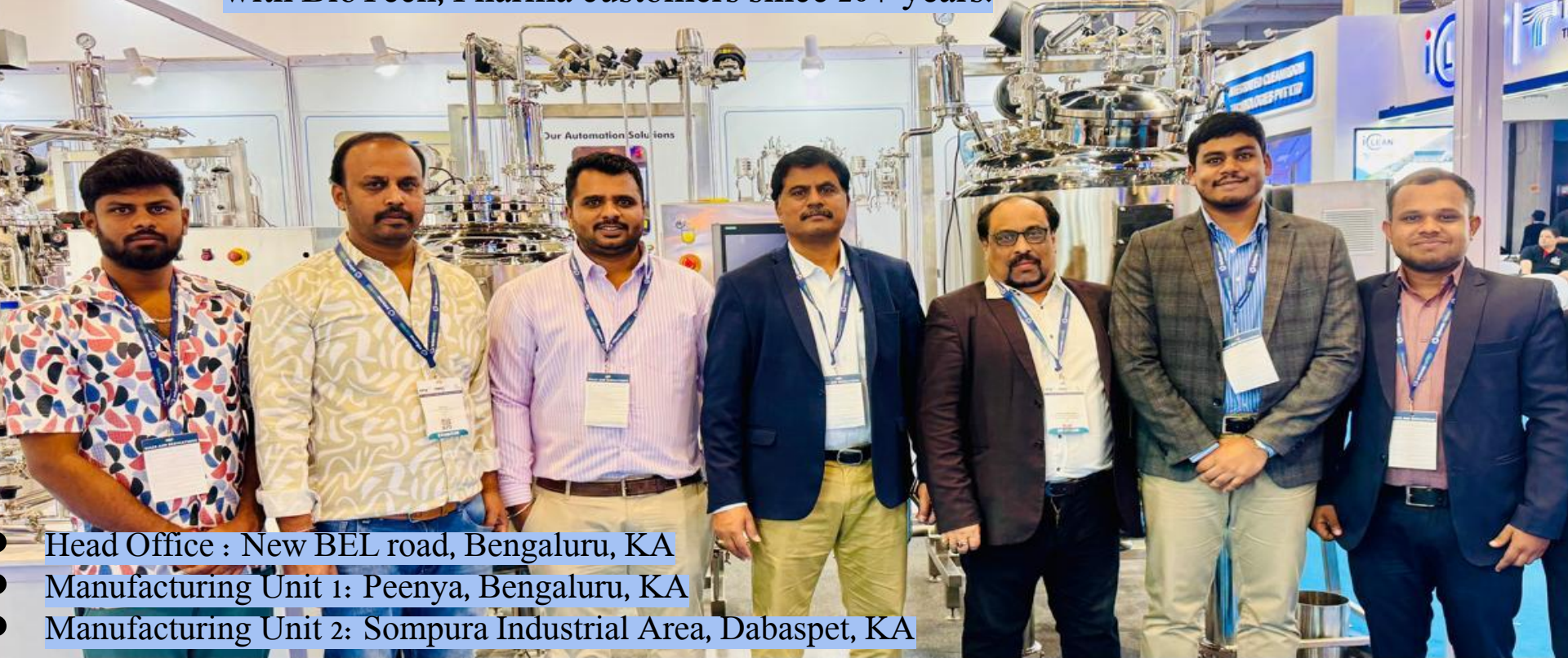




14.D06

OMEGA SCIENTIFIC
INSTRUMENTS PVT. LTD.

Our Team of 100+ People take great pride in serving, supporting and growing with BioTech, Pharma customers since 20+ years.



- Head Office : New BEL road, Bengaluru, KA
- Manufacturing Unit 1: Peenya, Bengaluru, KA
- Manufacturing Unit 2: Sompura Industrial Area, Dabaspet, KA





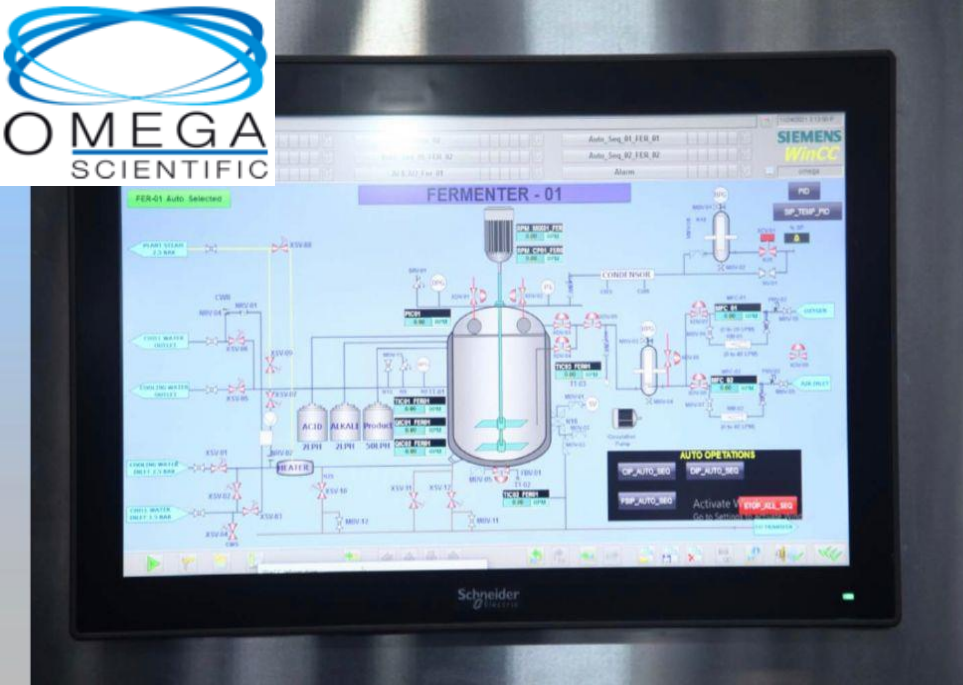




Omega Scientific Instruments Pvt. Ltd.

We are all about quality, to be precise...

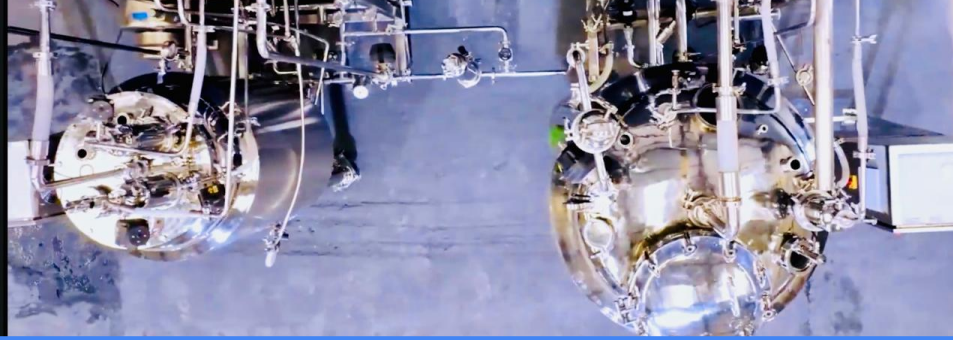
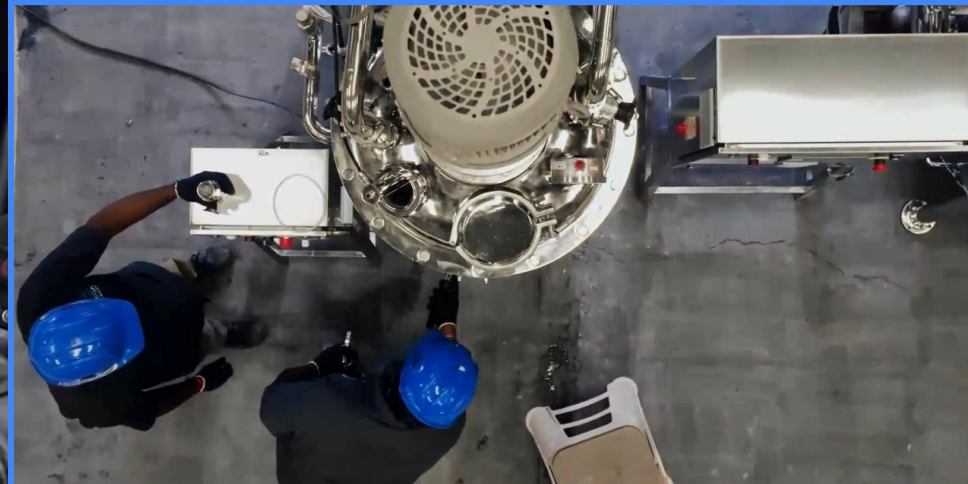
- More than 550 customer base
- More than 5000 users
- 20,000 vessels in use
- High Precision, high quality products and services at Global Standards
- Highly proficient process knowledge for Sterile Manufacturing
- Ultra Modern fabrication and design of Fermenters, Bioreactors
- In-house dynamic Automation Team with around the clock customer support
- Absolute uncompromising in terms of quality



- Experienced personnel who have installed, commissioned, operated reactors of 50KL
- Manufacturing capacity upto 100,000L



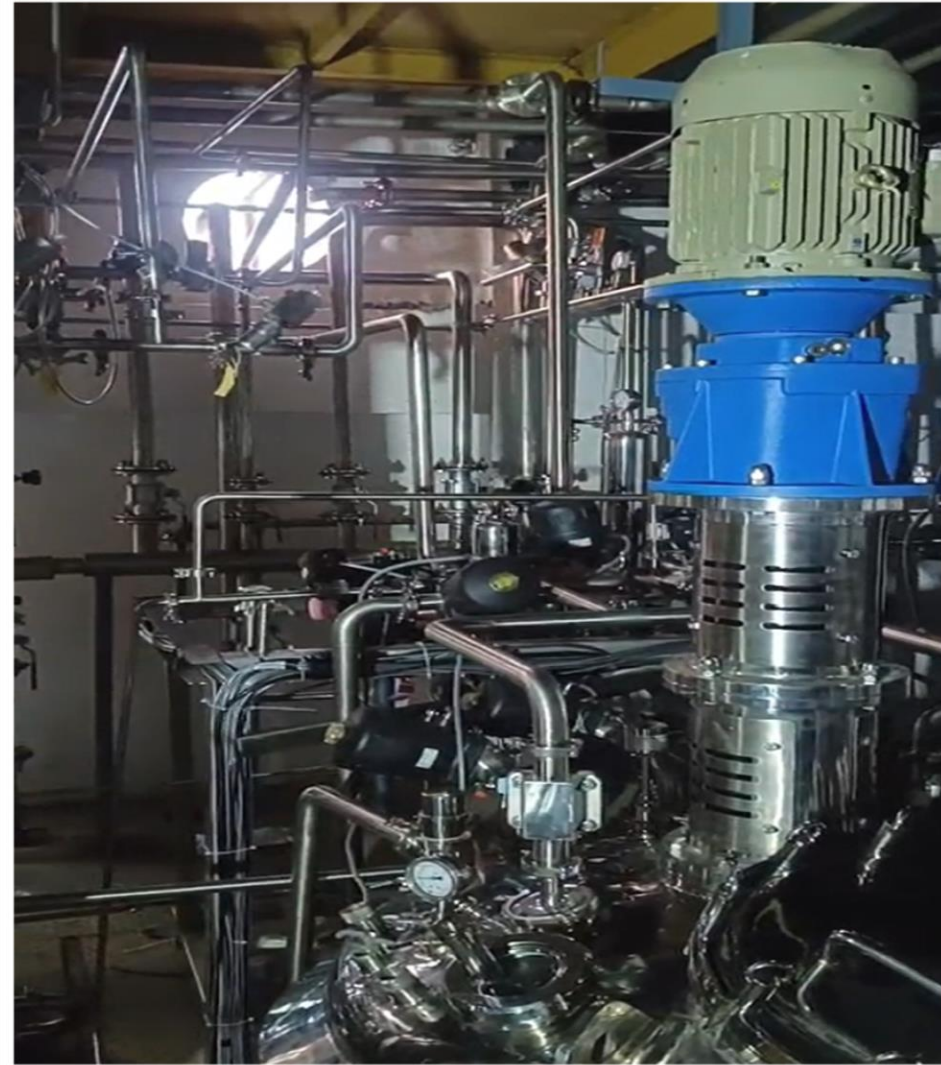




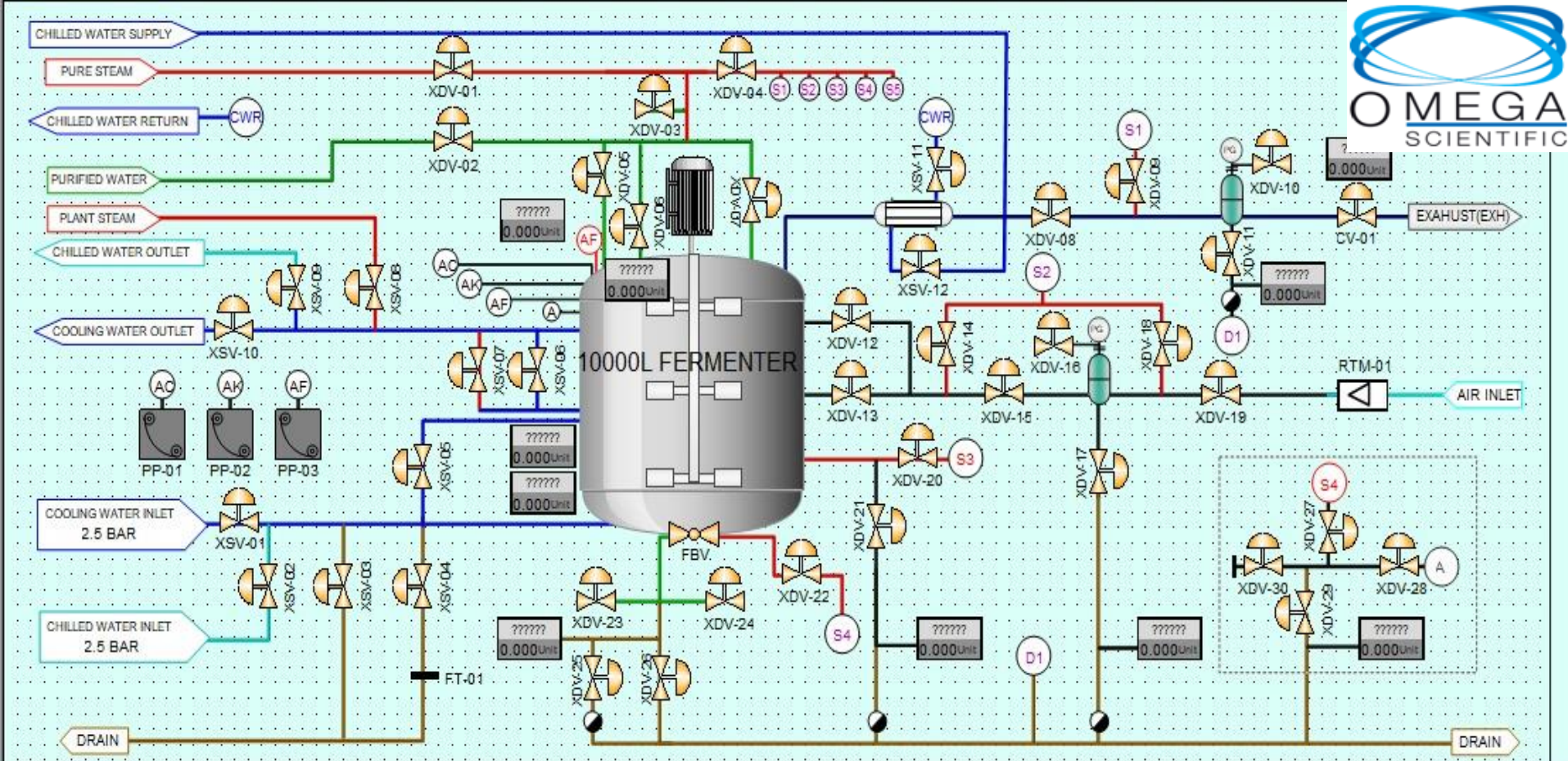






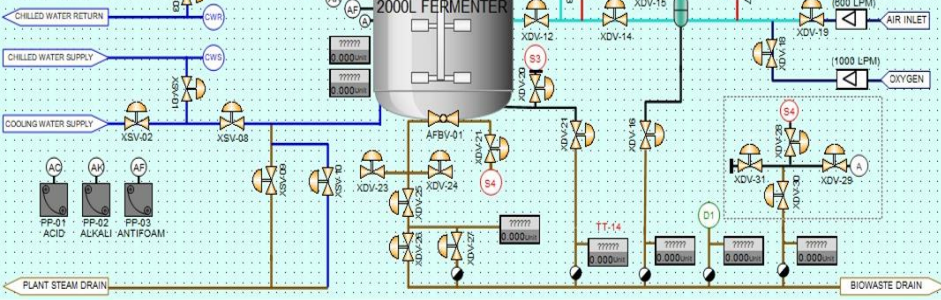






Object Properties

Properties Events Texts Animation



Object Properties

Properties Events Texts Animation

hygneus_2KL_V2.PDL V1_Mimic.PDL V2_Mimic.PDL

Fermentation

	Min	Max
Set Temp	*** °C	0 40
Agitator Speed	*** rpm	0 400
PH Set Point	*** PH	0 12
DO Set Point	*** %	0 100
Back Pressure	*** Bar	0 2
PH Control	☐	Antifoam Control ☐

START

hygneus_2KL_V2.PDL V1_Mimic.PDL V2_Mimic.PDL V3_Mimic.PDL V1_View.I

CIP & ESIP

	Min	Max
Water Collection level	*** Mins	0 300
Agitator Speed	*** rpm	0 400
Agitator Time	*** Mins	0 60
Stream Through Sparger temp	*** °C	90 130
Maintain Temp	*** °C	90 130
Pressure	*** Bar	0 2
Holding Time	*** Mins	0 60
Air Cooling	*** °C	60 100
Air + Cooling Tower Water	*** °C	25 60

START

Media Preparation

	Min	Max
Agitator Speed	*** rpm	0 400
Mixing Time	*** Mins	0 60

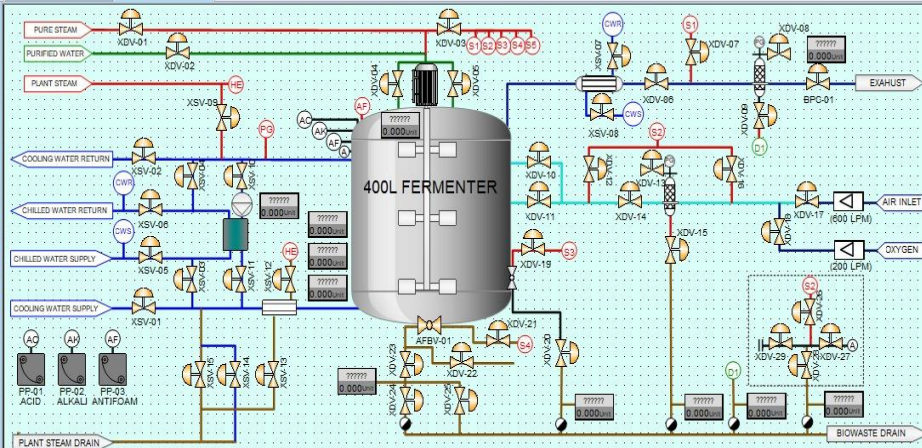
START

FSIP

	Min	Max
Set Temp	*** °C	90 130
Maintain Temp	*** °C	90 130
Agitator Speed	*** rpm	0 400
Pressure	*** Bar	0 2
Holding Time	*** Mins	0 60
Air Cooling	*** °C	60 100
Cooling Tower Water	*** °C	30 60
Child Water	*** °C	0 30

START

hygneus_2KL_V2.PDL V1_Mimic.PDL



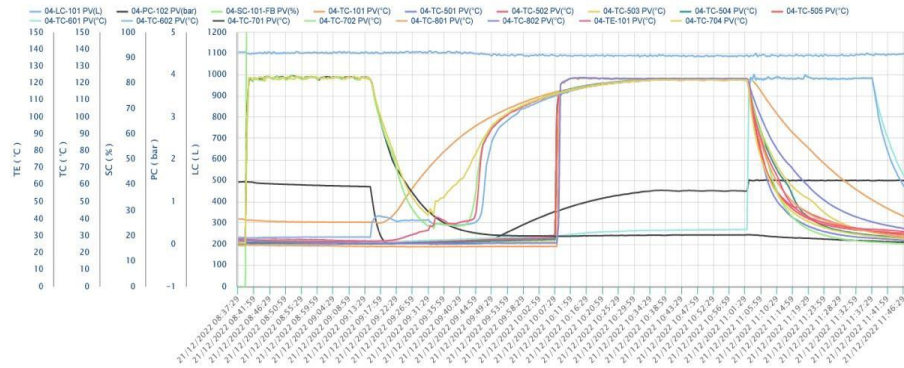


OMEGA
SCIENTIFIC

BATCH REPORT FOR 1200L PRODUCTION FERMENTOR

FSIP

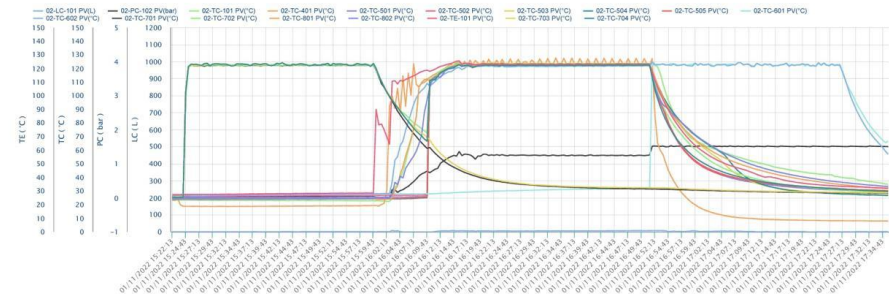
TREND FOR FSIP



BATCH REPORT FOR 1200L PRODUCTION FERMENTOR

ESIP

TREND FOR ESIP



BATCH REPORT FOR 1200L PRODUCTION FERMENTOR

ESIP

Date & Time	STEP DESCRIPTION	02-LC-101 PV (L)	02-PC-102 PV (bar)	02-TC-101 PV (°C)	02-TC-401 PV (°C)	02-TC-501 PV (°C)	02-TC-502 PV (°C)	02-TC-503 PV (°C)	02-TC-504 PV (°C)	02-TC-505 PV (°C)	02-TC-601 PV (°C)	02-TC-602 PV (°C)	02-TC-701 PV (°C)	02-TC-702 PV (°C)	02-TC-801 PV (°C)	02-TC-802 PV (°C)	02-TE-101 PV (°C)	02-TC-703 PV (°C)	02-TC-704 PV (°C)
01/11/2022 15:51:43	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.1	25.5	26.7	24.4	24.2	24.4	27.6	27.7	122.1	122.3	24.3	24.3	28.4	122.3	122.0
01/11/2022 15:52:13	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.1	25.4	26.7	24.5	24.2	24.5	27.6	27.8	122.1	122.3	24.4	24.4	28.4	123.4	123.6
01/11/2022 15:52:43	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.1	25.4	26.8	24.5	24.2	24.4	27.6	27.7	122.1	122.3	24.3	24.4	28.4	123.1	123.0
01/11/2022 15:53:13	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.1	25.5	26.8	24.4	24.2	24.4	27.6	27.7	122.4	122.6	24.4	24.4	28.4	123.2	123.2
01/11/2022 15:53:43	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.2	25.5	26.9	24.5	24.2	24.4	27.6	27.7	122.3	122.5	24.4	24.4	28.5	123.3	123.2
01/11/2022 15:54:13	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.2	25.5	26.8	24.5	24.2	24.5	27.7	27.7	122.5	122.7	24.3	24.4	28.4	122.4	122.9
01/11/2022 15:54:43	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.1	25.4	26.7	24.6	24.2	24.4	27.7	27.8	122.3	122.5	24.3	24.4	28.4	122.5	123.0
01/11/2022 15:55:13	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.9	19.1	25.5	26.7	24.5	24.2	24.5	27.6	27.7	122.4	122.4	24.3	24.4	28.5	122.6	122.1
01/11/2022 15:55:43	05 : INLET FILTERS STERILIZATION HOLDING	1.2	0.03	22.8	19.2	25.5	26.8	24.5	24.2	24.5	27.6	27.8	122.2	122.4	24.3	24.4	28.5	122.2	122.0
01/11/2022 15:56:13	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.8	19.2	25.5	26.8	24.5	24.2	24.5	27.6	27.8	122.2	122.4	24.3	24.4	28.5	123.0	122.7
01/11/2022 15:56:43	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.8	19.2	25.4	26.7	24.5	24.2	24.4	27.7	27.8	122.3	122.5	24.4	24.5	28.4	123.5	123.6
01/11/2022 15:57:13	05 : INLET FILTERS STERILIZATION HOLDING	1.1	0.03	22.7	19.2	25.5	26.8	24.5	24.3	24.5	27.6	27.9	122.2	122.4	24.3	24.4	28.5	122.9	123.0

BATCH REPORT FOR 1200L PRODUCTION FERMENTOR

ESIP

Date & Time	STEP DESCRIPTION	04-LC-101 PV (L)	04-PC-102 PV (bar)	04-SC-101-FB PV (%)	04-TC-101 PV (°C)	04-TC-501 PV (°C)	04-TC-502 PV (°C)	04-TC-503 PV (°C)	04-TC-504 PV (°C)	04-TC-505 PV (°C)	04-TC-601 PV (°C)	04-TC-602 PV (°C)	04-TC-701 PV (°C)	04-TC-702 PV (°C)	04-TC-801 PV (°C)	04-TC-802 PV (°C)	04-TE-101 PV (°C)	04-TC-703 PV (°C)	04-TC-704 PV (°C)
21/12/2022 11:45:29	15-EXHAUST FILTER & VESSEL COOLING	1096.6	1.51	149	42.4	27.5	30.7	29.0	28.8	31.6	69.6	63.0	26.3	25.5	29.6	34.8	32.7	28.4	
21/12/2022 11:45:59	15-EXHAUST FILTER & VESSEL COOLING	1098.8	1.50	149	42.0	27.5	30.6	29.8	28.7	31.6	67.6	61.1	26.3	25.4	29.4	34.5	32.6	28.4	
21/12/2022 11:46:29	15-EXHAUST FILTER & VESSEL COOLING	1099.3	1.50	149	41.5	27.5	30.5	29.7	28.6	31.5	65.6	59.6	26.3	25.4	29.2	34.3	32.6	28.4	
21/12/2022 11:46:59	15-EXHAUST FILTER & VESSEL COOLING	1095.6	1.51	149	41.0	27.4	30.4	29.6	28.6	31.5	63.8	58.0	26.3	25.4	29.2	34.1	32.5	28.2	
21/12/2022 11:47:29	15-EXHAUST FILTER & VESSEL COOLING	1097.1	1.50	149	40.5	27.3	30.4	29.4	28.6	31.4	62.0	56.6	26.2	25.3	29.0	33.9	32.4	28.2	
21/12/2022 11:47:59	15-EXHAUST FILTER & VESSEL COOLING	1093.6	1.50	149	40.1	27.3	30.3	29.3	28.5	31.3	60.3	55.2	26.1	25.3	28.8	33.7	32.3	28.1	
21/12/2022 11:48:21	19-COMPLETION	1096.6	1.51	149	39.7	27.2	30.2	29.2	28.4	31.3	62.5	56.2	26.1	25.3	28.7	33.6	32.4	28.1	

FSIP REPORT

BATCH REPORT FOR 1200L PRODUCTION FERMENTOR -FM04 (ID : M22652)

FSIP

PROCESS PARAMETER FOR FSIP

Agitator Speed :	150 RPM
Inlet filter Sterilization Temperature :	122.0 °C
Inlet filter Stabilization Timer :	5 Min
Inlet filter Sterilization Holding Timer :	30 Min
Sterilization Temperature :	122.0 °C
Sterilization Holding Timer :	30 Min
Post sterilization pressure :	1.50 bar
Exhaust filter Sterilization Temperature :	122.0 °C
Exhaust filter Stabilization Timer :	5 Min
Exhaust Sterilization Holding Timer :	30 Min
Exhaust Cooling Timer :	10 Min
Vessel Cooling-1 Temperature :	85.0 °C
Vessel Cooling-2 Temperature :	40.0 °C

Verified by :

BATCH REPORT FOR 1200L PRODUCTION FERMENTOR

PSIP

BATCH DATA FOR PSIP

Date & Time	STEP DESCRIPTION	04-LC-101 PV (L)	04-PC-102 PV (bar)	04-SC-101-FB PV (%)	04-TC-101 PV (°C)	04-TC-501 PV (°C)	04-TC-502 PV (°C)	04-TC-503 PV (°C)	04-TC-504 PV (°C)	04-TC-505 PV (°C)	04-TC-601 PV (°C)	04-TC-602 PV (°C)	04-TC-701 PV (°C)	04-TC-702 PV (°C)	04-TC-801 PV (°C)	04-TC-802 PV (°C)	04-TE-101 PV (°C)	04-TC-704 PV (°C)
21/12/2022 08:37:29	01:OPERATOR MESSAGE	1107.2	1.47	0	39.9	25.6	26.3	25.9	26.2	28.2	28.3	29.1	24.7	24.1	24.6	27.3	28.0	26.0
21/12/2022 08:37:59	02:JACKET FILLING	1107.2	1.47	0	39.9	25.5	26.2	26.0	26.1	28.1	28.3	29.1	24.7	24.1	24.6	27.3	28.1	25.9
21/12/2022 08:38:29	02:JACKET FILLING	1107.3	1.47	0	39.9	25.5	26.3	25.9	26.0	28.2	28.1	29.0	24.7	24.0	24.5	27.2	28.0	25.9
21/12/2022 08:38:59	02:JACKET FILLING	1107.2	1.48	0	39.7	25.5	26.2	26.0	26.0	28.1	28.1	29.0	24.6	24.1	24.6	27.1	28.0	25.9
21/12/2022 08:39:29	02:JACKET FILLING	1107.3	1.47	0	39.3	25.5	26.2	25.9	26.0	28.0	28.1	28.9	24.6	24.1	24.6	27.1	27.9	25.9
21/12/2022 08:39:59	03:INLET FILTERS HEATING	1100.9	1.47	149	39.1	25.5	26.1	25.9	25.9	28.0	28.1	28.9	104.6	92.3	24.5	27.1	27.8	100.0
21/12/2022 08:40:29	04:STABILIZATION OF INLET FILTERS	1100.9	1.47	149	39.2	25.5	26.1	25.9	25.9	28.0	28.0	28.8	121.4	122.8	24.5	27.1	27.7	123.4
21/12/2022 08:40:59	04:STABILIZATION OF INLET FILTERS	1098.3	1.47	149	39.3	25.5	26.1	26.0	25.9	27.9	27.9	28.8	123.1	123.3	24.4	27.1	27.7	122.8
21/12/2022 08:41:29	04:STABILIZATION OF INLET FILTERS	1101.5	1.47	149	39.1	25.5	26.1	25.9	25.9	27.9	28.0	28.8	121.3	121.5	24.5	27.0	27.7	122.4
21/12/2022 08:41:59	04:STABILIZATION OF INLET FILTERS	1099.1	1.45	149	39.0	25.5	26.2	25.9	25.9	27.9	27.9	28.8	123.0	122.8	24.4	26.9	27.5	123.4
21/12/2022 08:42:29	04:STABILIZATION OF INLET FILTERS	1102.7	1.45	149	39.0	25.5	26.2	25.9	25.9	27.9	27.9	28.8	122.4	122.3	24.3	26.9	27.5	122.9
21/12/2022 08:42:59	04:STABILIZATION OF INLET FILTERS	1102.8	1.44	149	38.9	25.5	26.1	25.8	26.0	28.0	27.8	28.8	122.5	122.4	24.4	26.9	27.4	122.6

Verified by :

ESIP REPORT

BATCH REPORT FOR 1200L PRODUCTION FERMENTOR

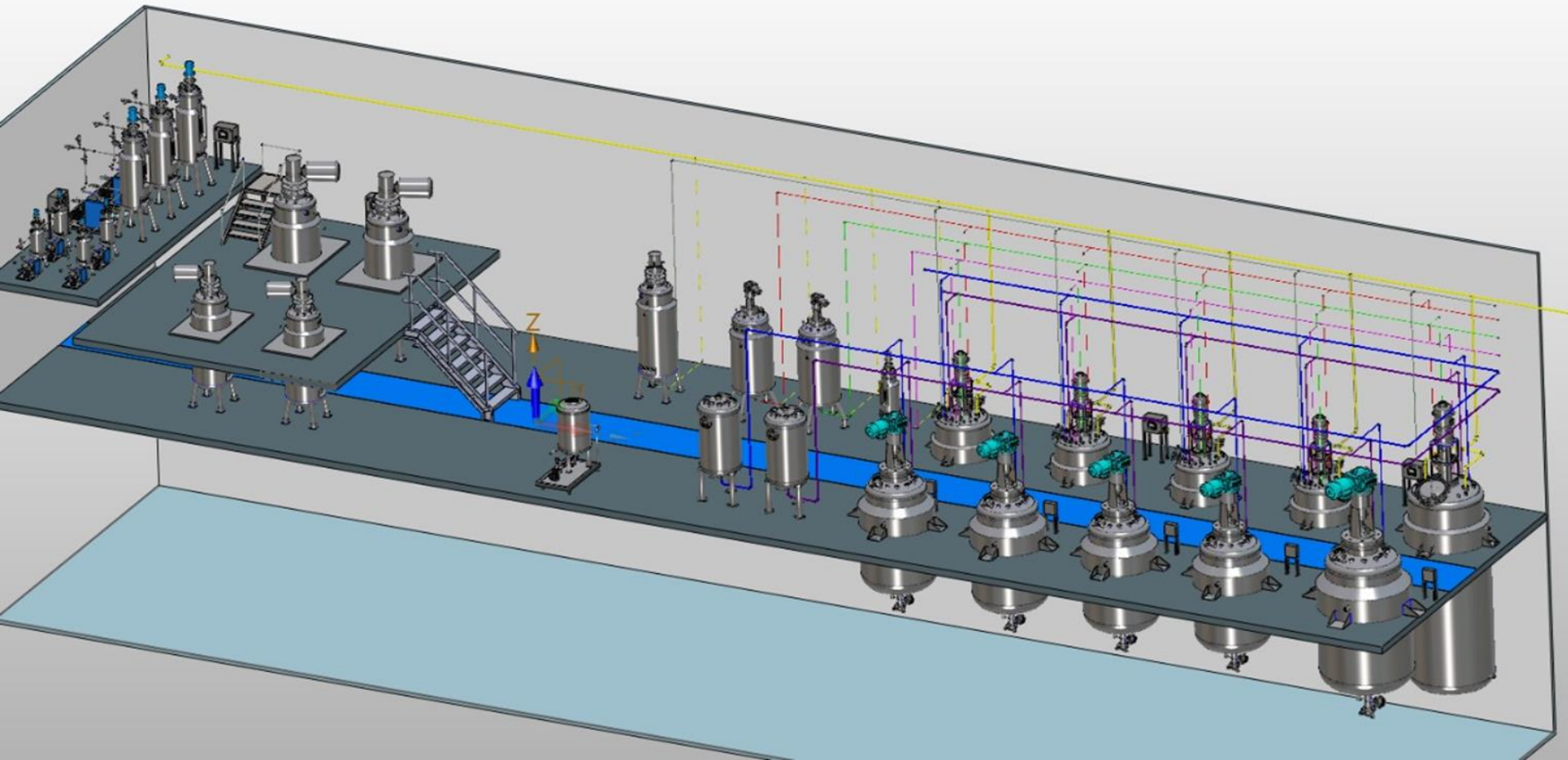
ESIP

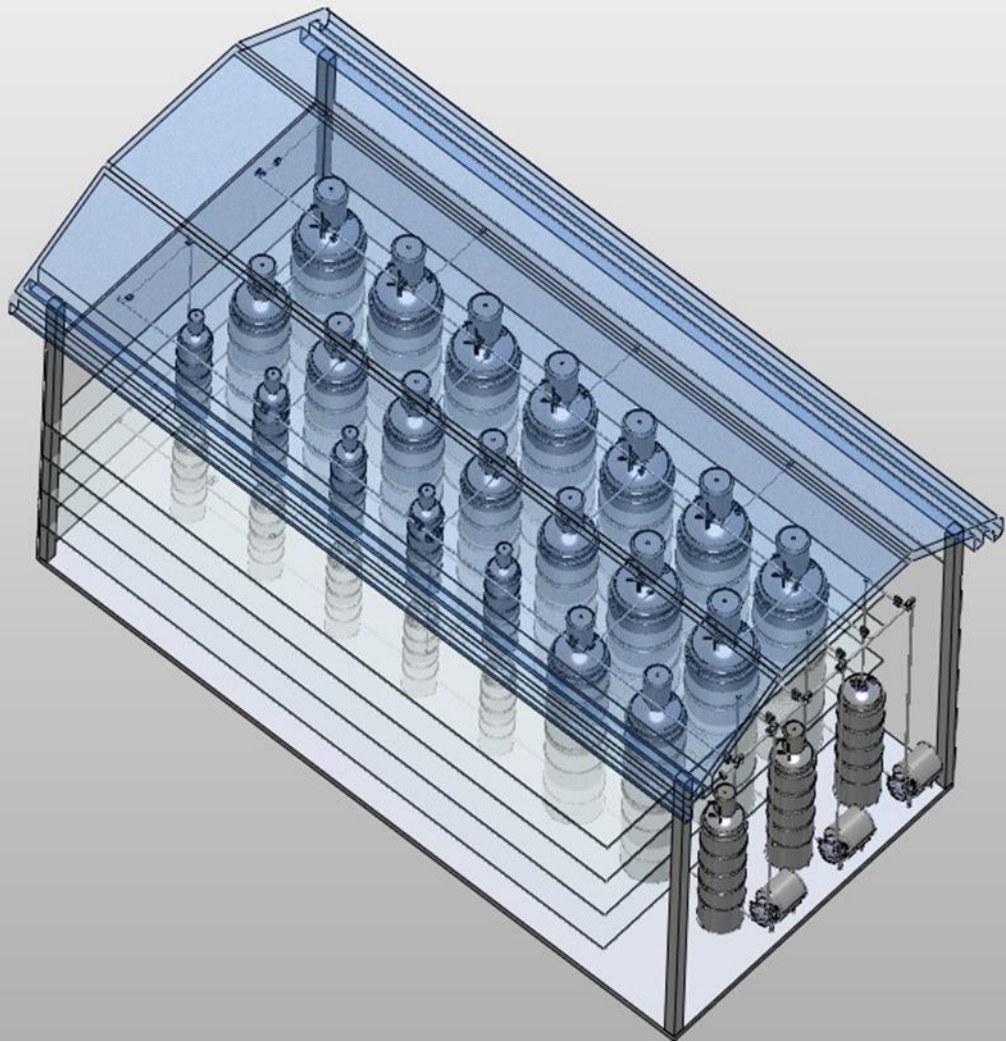
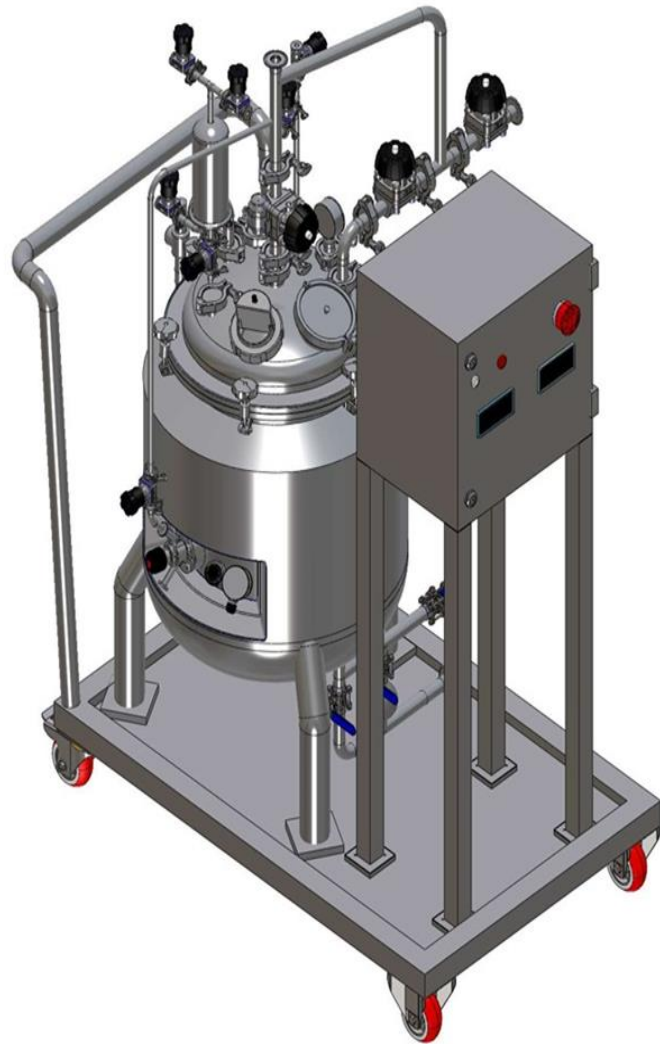
PROCESS PARAMETER FOR ESIP

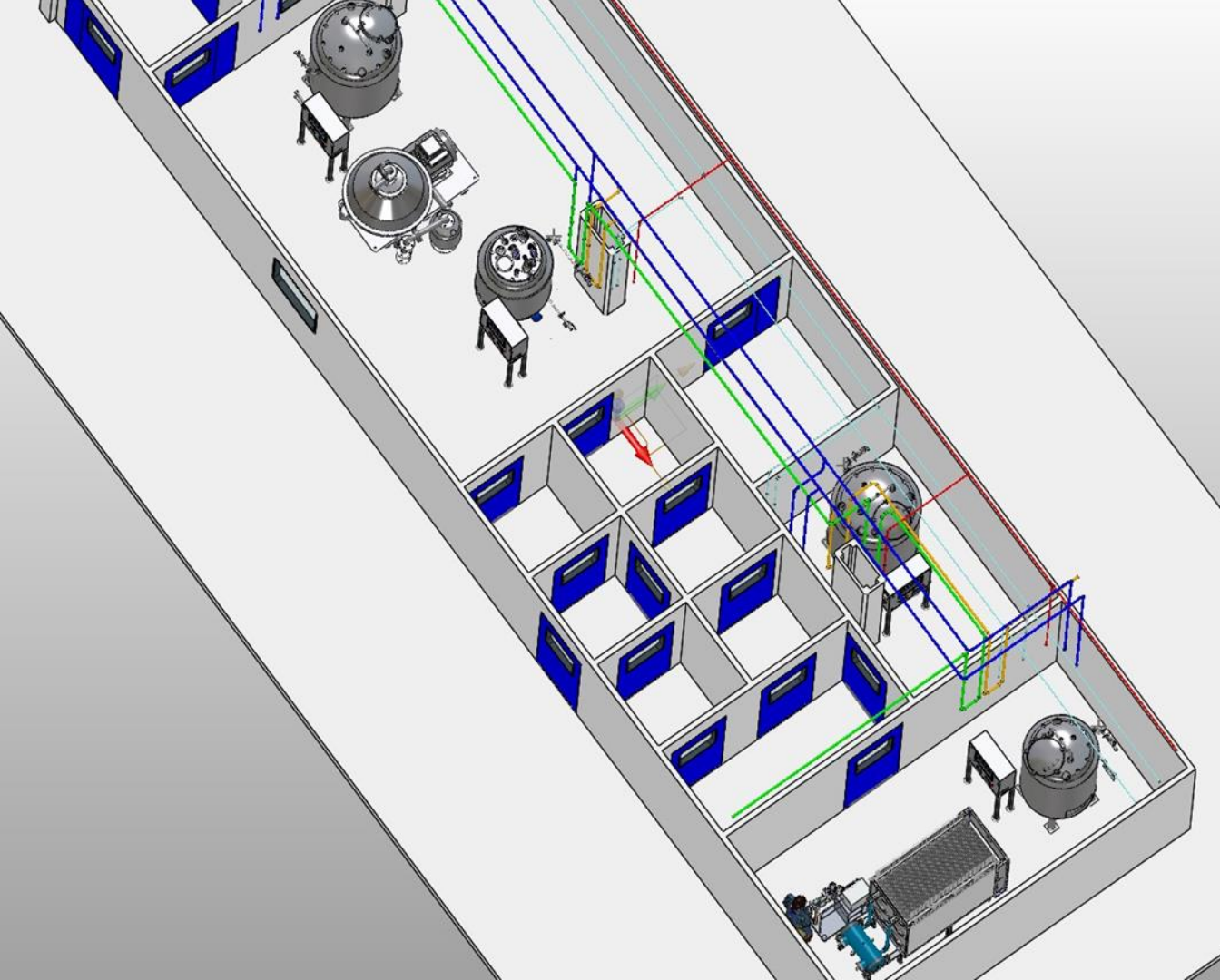
Inlet filter Sterilization Temperature :	122.0 °C
Inlet filter Stabilization Timer :	5 Min
Inlet filter Sterilization Holding Timer :	30 Min
Vessel Sterilization Temperature :	122.0 °C
Vessel Stabilization Timer :	5 Min
Vessel Sterilization Holding Timer :	30 Min
Post sterilization pressure :	1.50 bar
Exhaust filter Sterilization Temperature :	122.0 °C
Vessel Cooling Temperature :	35.0 °C
Exhaust filter Stabilization Timer :	5 Min
Exhaust Sterilization Holding Timer :	30 Min
Exhaust Cooling Timer :	5 Min

Verified by :

3D DRAWINGS







The following are few of the projects that OSIPL team has successfully commissioned and the production is being done...

CUSTOMER NAME	CAPACITY	PRODUCT SUPPLIED	APPLICATION	COUNTRY
Unique Biotech Ltd	20L Series	R&D (4 in single skid)	Probiotics	India
Sanzyme Ltd	100L	R&D Purpose	Probiotics	India
Hygenus Bioceuticals	400L,2KL,10KL	Production Fermenters	Probiotics(QMS Liquid)	India
SVAS Organics Ltd	500L,5KL,50KL, 50L, 350L,3500L	Production Fermenters	Probiotics	India
Chimique India	50L,500L 3KL,5KL	Production Fermenters	Gaur Gum powder	India
Star Hi Herbs	250L	Production Fermenters	Herbal	India
Indian Immunologicals Ltd	15KL,1KL	Production Purpose	Media Blending	India

The following are few of the projects that OSIPL team has successfully commissioned and the production is being done...

CUSTOMER NAME	CAPACITY	PRODUCT SUPPLIED	APPLICATION	COUNTRY
RK Pharma Phase 1	25L,50L,100L,200L,300L,500L	Production Purpose	Injectables	USA
AuroVac	50L	Production Purpose	Vaccines	USA
Cipla Limited	1L,3L,50L,10L	FR&D Purpose	Injectables	USA
RK Pharma Phase 2	500L	Production Purpose	Injectables	USA
PharmaSource LLP	100ML,200ML,500ML,1L,2L,5L	FR&D Purpose	Injectables	USA
Biopharma SPA	2L,5L	FR&D Purpose	Injectables	Algeria
Polisano Pharmaceuticals	2L	FR&D Purpose	Injectables	Romania
Navesta Pharmaceuticals	400L,400L	Production Purpose	Injectables	Sri Lanka
Cipla Limited	BPTA	Production Purpose	Injectables	Uganda

The following are few of the projects that OSIPL team has successfully commissioned and the production is being done...

CUSTOMER NAME	CAPACITY	PRODUCT SUPPLIED	APPLICATION	COUNTRY
Lazuline Biotech Pvt Ltd	500L,1KL,3.5KL,5KL	Production Purpose	Recombinant	India
GeneSys Biologicals Ltd	250L 500L 1KL,2KL	Production Purpose	Insuline	India
Maiva Pharma Ltd	100L,500L,1KL,3.6KL	Production Purpose	Injectables	India
Sterile Gene Pvt Ltd	100L,200L,500L,1KL,1.5KL	Production Purpose	Eye Drops	India
Stelis Bio Pharma	50L,100L,200L,350L,1KL,2 KL	Production Purpose	Complex Injections	India
Somerset Therapeutics	50L,100L,200L,250L,650L	Production Purpose	Injectables	India
Verve Human Care	100L,300L,500L,700L,1KL	Production Purpose	Injectables & Propofol Inj	India
Rusan Pharma Ltd	50L 700L	Production Purpose	Injectables	India

The following are few of the projects that OSIPL team has successfully commissioned and the production is being done...

CUSTOMER NAME	CAPACITY	PRODUCT SUPPLIED	APPLICATION	COUNTRY
Caplin Laboratories	50L,1000L	Production Purpose	Injectables	India
Vins Bioproducts	700L	Production Purpose	Anti Snake venom	India
Globion India Ltd	1000L Inactivation Vessels	Production Purpose	Animal Vaccines	India
SP Accure Labs Phase 1	30L,100L	Production Purpose	Onco Products	India
SP Accure Labs Phase 2	20L,100L,200L,300L	Production Purpose	Onco Products	India
Tyro labs	1000L	Production Purpose	Onco Products	India



Few of Omega Export Projects

- We have manufactured, supplied and Installed various injectables and vaccine manufacturing equipment to countries, including Sri Lanka, the United States, Uganda, Poland, and Palestine etc.

QA/QC department and Validation department ensure to check, verify and ensure that the quality standards are surpassed rather than meeting them.

With half a dozen skilled professionals, we ensure traceability of certificates, transparency during online FATs, seamless passing of both online and at site FATs.

With half a dozen professionals in the service and support departments we ensure to uphold amicable AMC's, excellent after sales support, timely installations.

Our facilities work 24/7 x 365 days to ensure prompt support, minimising our timelines of deliveries.

- Excellent craftsmanship of Fermenters and Bioreactors along with Top-notch instrumentation.
- Process Knowledge not just for fabrication of the fermenter but also for installation and commission.
- Hand-holding from R and D to pilot scale and Industrial production.
- Experienced Automation team to provide complete reports of ESIP, FSIP, Batch processes that will ensure seamless auditing, maintain Data Integrity
- We have manufactured around 50 nos of Fermenters ranging from 500L, 1KL, 10KL all the way to 50KL, we have also done the complete turnkey line piping for 100,000L fermenters.



Omega Scientific Instruments Pvt. Ltd.

At OSIPL, we ensure complete end-to-end support for our customer partners and provide round-the-clock service. One of the key factors that strengthens our relationship with clients is our post-sales service. Our service and factory teams are always just a notice away, ready to provide prompt customer support.

Our main philosophy is to grow with our client, establish a win-win relationship with our customers



Fermenters and BioReactors : Lab Scale to Industrial Scale

- Excellent craftsmanship of Fermenters and Bioreactors along with Top-notch instrumentation
- Process Knowledge not just for fabrication of the fermenter but also for installation and commission.
- Hand-holding from R and D to pilot scale and Industrial production.
- Experienced Automation team to provide complete reports of ESIP, FSIP, Batch processes that will ensure seamless auditing, maintain Data Integrity

Other Products:

- SS and Glass Fermenters
- Pilot Scale Fermenters
- Industrial Scale Fermenters
- Compounding Vessels
- Pressure Vessels
- Receiving Vessels
- Filtration Skids
- CIP/ SIP Skids
- Horizontal Autoclaves
- Vertical Autoclaves
- Mixing Vessels
- Purified Water Systems
- Multi Column Distillation System
- Pure Steam Generators
- Raw water to WFI systems
- Compounding with High shear, Homogeniser, UPSM Mixers
- Turnkey Biotech, Pharma Solutions
- Isolators- Positive/Negative pressure



Omega Scientific Instruments Pvt. Ltd.

We are all about quality, to be precise ...

At OSIPL we ensure to support our customer partners on an end to end basis and provide around the clock service

One of the many things that uplift our relationship with our clients is our Post sales service. Our Service and factory team are a notch away from customer support

Our main philosophy is to grow with our client, establish a win-win relationship with our customers



Omega Scientific Instruments Pvt. Ltd.
We are all about quality, to be precise...

For any further clarifications, please feel free to contact:

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