

LOGIXP

Pharmaceutical
coating



FILM COATING
AND SUGAR / SUGARFREE
COATING INSTALLATION
THE HIGHEST QUALITY
STANDARD IN DESIGN
AND CONSTRUCTION
FOR YOUR
PHARMACEUTICAL
PRODUCTS

Dumoulin

LOGI-XP

AQUEOUS FILM
COATING
ORGANIC FILM
COATING
SUGAR AND
SUGARFREE COATING

LOGI-XP

AQUEOUS FILM COATING
ORGANIC FILM COATING
SUGAR AND SUGARFREE COATING

USEFUL VOLUME	329 Liters
BATCH SIZE	100-250 kg
DIAMETER	1400 mm
LENGTH	940 mm
PRODUCT BED DEPTH	357 mm

PRODUCTS RANGE

LOGI-XP unit is specially designed for coating of compressed tablets, granules, gums.

- It can also be used for film coating of vegetables, flowers and cereal seeds.
- According to your needs, products will be covered with aqueous film coating, organic film coating, sugar or sugarfree coating, or any combination of these.



PAN DESIGN

LOGI-XP unit is designed and built according to cGMP rules

- Full stainless steel construction
- Complete partition between process zone and technical zone
- Perfect tightness of process zone with seals on doors and window
- Overhanging drum – no mechanical part in process zone

LOGI-XP unit offers the best quality coating

- Perforated drum for efficient ventilation
- Shallow bed depth for smooth handling of tablets and maximum exposure to coating
- removable mixing baffles to fit all kinds of tablets

LOGI-XP unit is easy to inspect and service

- Possibility to install embedded or semi embedded
- lateral access doors on both side

SPRAYING SYSTEMS

A LOGI-XP unit can be used for any kind of coating.

Aqueous film coating

- Anti-bearding air spray guns
- Low pressure peristaltic pump
- Optional multi-head pump
- Optional spraybar with no hose inside drum – air and liquid networks inside spraybar body



Organic film coating

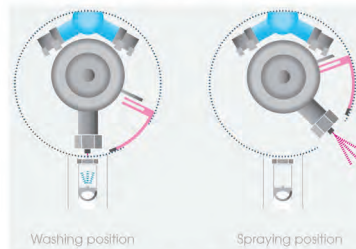
- Airless sprayguns
- High pressure pneumatic pump

Ergonomic spraybars

- Sprayguns position adjustment no tool required

Sugar or sugarless syrup coating

- Air or airless sprayguns
- Medium pressure pump

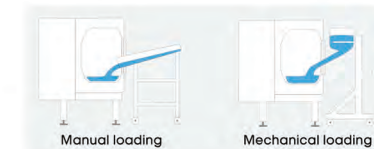


- Easy maintenance

A wide range of options and ancillary equipment are available such as solution tanks, individual gun flow regulation, detection of nozzle blockage.

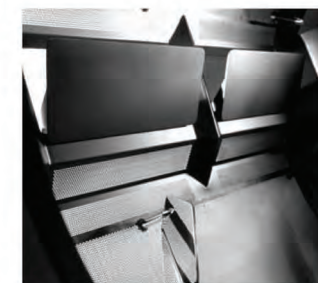
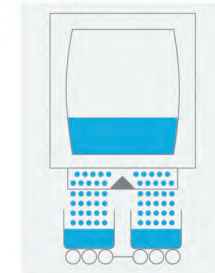
LOADING SYSTEM

Several possibilities according to layout, production and hygiene requirements



UNLOADING SYSTEM

- Automatic unloading through built-in traps.



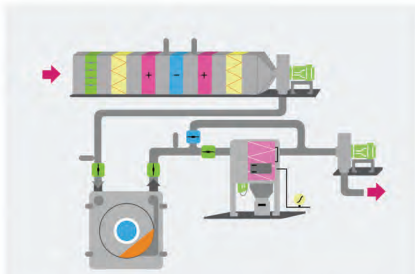
AIR TREATMENT GROUP

Process Air

- Air handling unit with cooling coils, heating coils, humidifier section
- Several filtration stages
- Airflow, temperature and humidity control
- Perfect repeatability
- Ventilation on top of products bed
- Exhaust underneath products bed through drum perforations with large open surface
- Exhaust hood

Exhaust air

- Negative pressure inside pan is ensured by outlet flowrate regulation
- Dedusting unit with automatic cleaning of the filters
- Optional HEPA filter



Air treatment with condensation for pharmaceutical coating

CLEANING IN PLACE (CIP)

CIP skid

with one or several tanks
pressure pump
recirculation or use of fresh water
detergent injection in line

CIP network

Inside the drum
Outside the drum
In the air exhaust hood

LOGI-XP unit design ensures a very efficient cleaning
Water networks equipped with rotative sprayballs
Fast drying with the air handling unit

CONTROL SYSTEM

Fully automated systems allowing to customize all machine parameters

- Automatic coating cycle according to user-friendly recipe building module
Loading, unloading, cleaning integrated in automatic cycle or run semi-manual
Overview screens for installation status
- Supervisory Control and Data Acquisition (SCADA)
Batch data recording and displaying
Historical trends and fault reports
- 21 CFR part 11 compliant

QUALIFICATION AND VALIDATION

Cover all aspects

- equipment
- process
- cleaning
- software

Documented validation steps, each of them being approved by customer

- General validation plan
- Proposed design versus customer specifications
- Test plan (IQ-OQ-PQ)
- Test performance (IQ-OQ-PQ)
- Final review of test results

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