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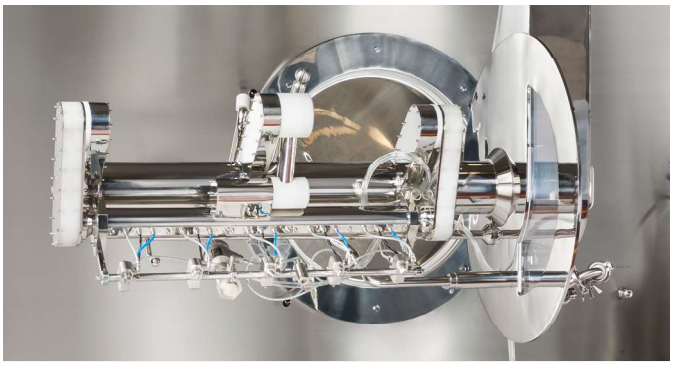
STE
PROCESS TECHNOLOGY



TP R
TABLET COATER

YOUR PARTNER FOR PROCESS

www.stetecpharm.com

COATING PROCESS TECHNOLOGY

TP R is a film coating machine based on perforated pan technology. Its high technology allows an automatic adjustment control of the flow, avoiding the damp, saving coating and optimizing the process time. Innovative high quality equipments certified by accredited entities. Fully designed and built in Europe following regulatory requirements and GMP´s normative.

Standard equipment with capacities ranging from 0,5 Kg to 600 Kg.
[Other dimensions on request].

FEATURES

TABLET COATER

- In-Wall design concept.
- Built in AISI 316L, with surfaces in contact with the product mirror polished with roughness Ra <0.5.
- PLC + HMI SIEMENS® for machine control in manual and automatic mode. Recipe editing.
- Detachable deflectors.
- Central transmission with direct coupling.
- Schlick® spray nozzles.
- All speed adjustments by frequency inverter.
- Central nozzle arm.
- WIP accessories for automatic cleaning.
- Spraying control by flow meter.
- Air control adjustments fully automatic.
- Automatic valves to isolate the process (GMP requirement).
- Sight glass+LED Illumination into the drum.
- Peristaltic pump (Watson Marlow®) for coating suspension dosage.
- Remote connection.

AIR TREATMENT

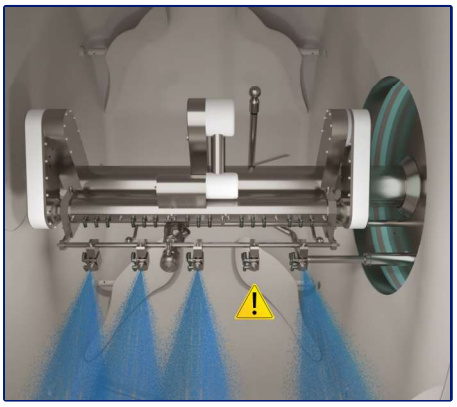
- Prefiltration with stage G4 and F9.
- Dehumidification battery by cold water.
- Drive fan adjustable by frequency inverter.
- Heating battery by steam.
- Δ P monitoring during the process.
- HEPA 13 absolute filtration.

DUST COLLECTOR

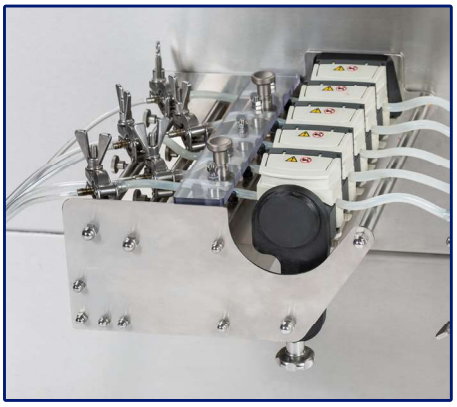
- Primary filtration stage with powder collection in container/s.
- Cleaning filters by blowing system.
- Anti-explosion panel and shock valve.
- HEPA 13 absolute filtration.
- Δ P monitoring during the process.

TP R | TABLET COATER

SPECIAL FEATURES



Blocked nozzle detection alarm



Load cells system

Perforated pan

Rotating arm

Schlick® spray nozzles

Infrared temperature sensor

Automatic sampling group

Suspension flow meter control

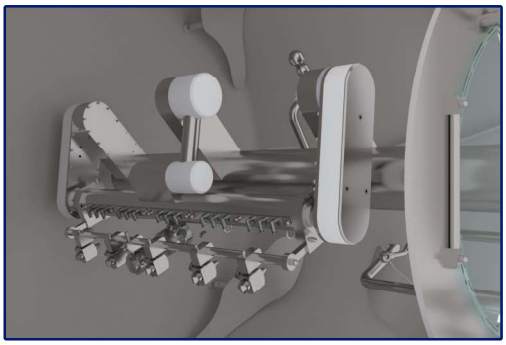
OPTIMA COATING SYSTEM

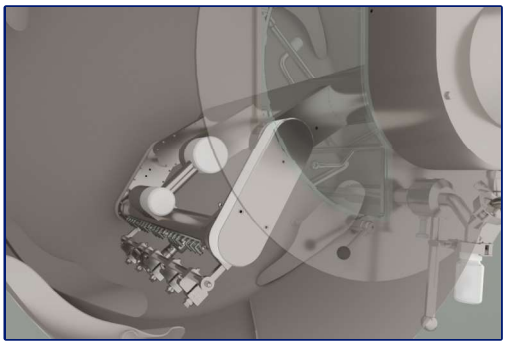
OPTIMA ARM PATENTED OPTIMA ARM

STE TECPHARM, within its range of coating equipment has developed a technology named: **OPTIMA COATING SYSTEM**.

MAIN ADVANTAGES

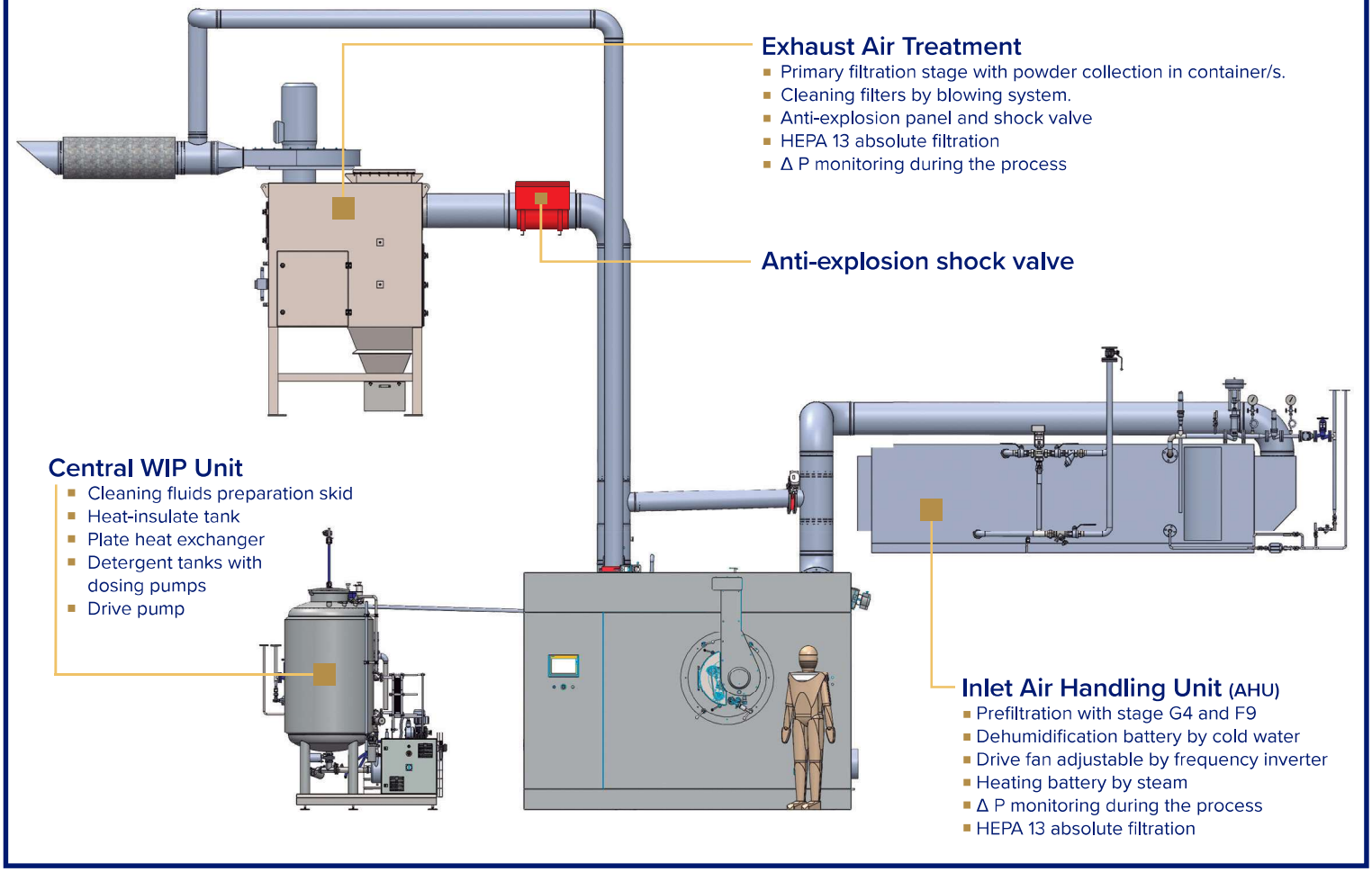
- **Increases the batch size** range from **10% to 100%**.
- Optimizes the parameter adjustment fully automatically.
- All in the same drum.
- Automatic extension system arm in terms of distance and angle.
- Automatic adjustment by sonar depending on the level of charge.
- Path and air flow self-adjustable according to tablet's load for a perfect performance





OPTIONALS & PERIPHERALS

- Automatic tablet unloading system.
- **Applied for utility model: ES-IT-DE**
  - Nozzle blockage detection system with automatic self-cleaning.
- ATEX rated, different classification according to client´s requirement.
- Desiccant wheel system for extra dehumidification.
- Central WIP unit.
- 21 CFR part 11.
- Coating suspension preparation tank (configurable).
- Containment execution up to OEB 5.
- Automatic sampling group.
- Turnkey installation service.



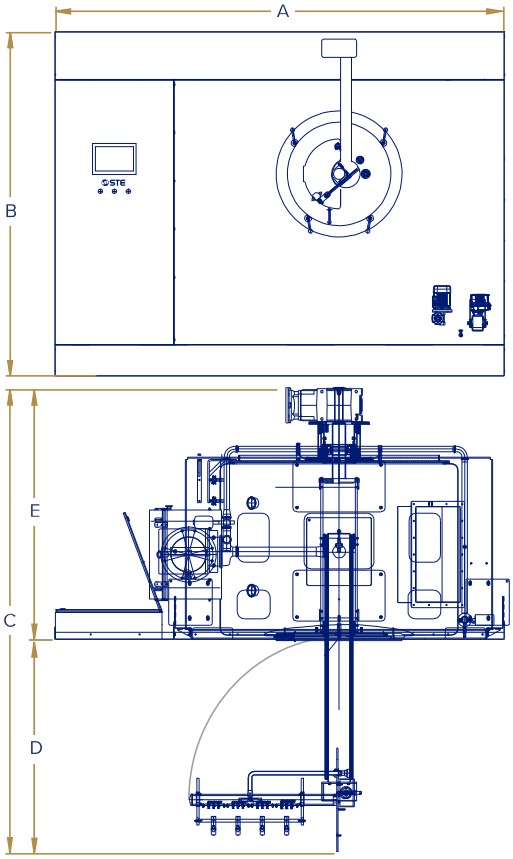
*Indicative lay-out

TP R | TABLET COATER

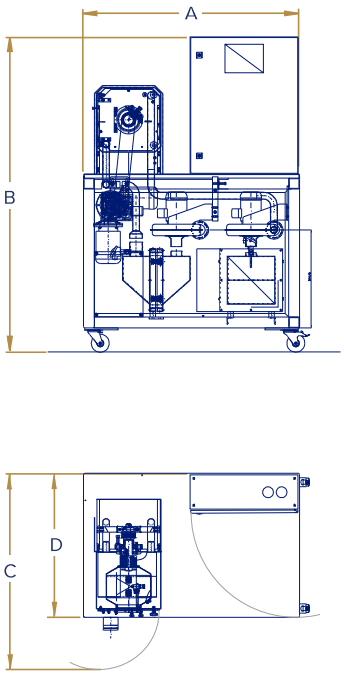
COATERS	CAPACITY		DIMENSIONS				
Model	Min.(L)	Max.(L)	A	B	C	D	E
TP RLAB-1	0,75	1,50	1.550	1.664	NA	800	NA
TP RLAB-2	1,50	3,00	1.550	1.664	NA	800	NA
TP Ri5-10	3,5	15	1.620	1.885	1.575	685	890
Model	Min.(L)	Max.(L)	A	B	C	D	E
TP R100	75	150	3.210	2.254	2.838	1.300	1.538
TP R150	113	225	3.210	2.254	3.140	1.465	1.675
TP R200	150	300	3.210	2.321	3.413	1.615	1.798
TP R300	225	450	3.510	2.542	3.975	1.845	2.130
TP R400	300	600	3.510	2.785	4.628	2.105	2.523
TP R500	375	750	3.840	3.050	5.390	2.400	2.990
TP R600	450	900	3.840	3.340	6.275	2.730	3.545
Model	Min.(L)	Max.(L)	A	B	C	D	E
TP R50_Optima	4	75	2.030	2.100	2.400	1.150	1.230
TP R100_Optima	15	150	3.210	2.254	2.838	1.300	1.538
TP R200_Optima	30	300	3.210	2.321	3.413	1.615	1.798
TP R300_Optima	45	450	3.510	2.542	3.975	1.845	2.130
TP R400_Optima	60	600	3.510	2.785	4.628	2.105	2.523
TP R500_Optima	75	750	3.840	3.050	5.390	2.400	2.990
TP R600_Optima	90	900	3.840	3.340	6.275	2.730	3.545

*Approximate data / Other dimensions upon request

TP R Equipment



TP R Lab



We Work WorldWide

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