



## BÜTTNER COAT-300 CVD coating system

### TECHNICAL DATA SHEET

**Main application:** Precision CVD coating at 800–1000 °C for industrial components

#### General Features

**Operating temperature:** 800–1000 °C  
**Max. heating temperature:** 1100 °C  
**Coating types:** Carbonitride, titanium nitride, boron nitride coatings  
**Temperature control:** 5-zone precision control system, stable thermal profile  
**Gas control:** Dedicated flow controller loop for each gas, with a utility model protected dosing system, Siemens PLC  
**Data collection:** Built-in system with automatic processing

#### Main Units and Specifications

##### 1. Process Unit (Reactor) with Heating Jacket

**Useful volume:** Ø300 x 620 mm  
**Overall size:** Ø350 x 850 mm  
**Material:** Heat-resistant steel  
**Weight:** 69 kg  
**Heating jacket:** Type CLO, 5 heating zones  
**Power:** 28 kW | 3x400V | 64 A | 50 Hz  
**Weight of heating jacket:** 250 kg

##### 2. Control Unit

**Function:** Gas dosing, regulation, process control  
**Size:** 800 x 1200 x 2000 mm  
**Weight:** 97 kg  
**Type:** Siemens®

##### 3. Exhaust Gas Treatment and Neutralization Unit

**Function:** Cooling and neutralization of gases  
**Size:** 400 x 1200 x 800 mm  
**Material:** Corrosion-resistant steel / PP  
**Weight:** 95 kg

##### 4. Gas Supply and Feed Unit

**Input pressure:** 200 bar  
**Output pressure:** 0.5–6 bar  
**Max. liquid delivery pressure:** 2.5 bar  
**Gas regulation:** Pressure reducers, precision control  
**Type:** LIQUIPREC®

##### 5. Cooling Unit

**Function:** Cooling of reactor and exhaust gas unit  
**Cooling system:** Closed-loop, efficient and stable operation

##### 6. Evaporator Unit

**Size:** 250 x 250 x 400 mm  
**Material:** Corrosion-resistant steel  
**Weight:** 25 kg

##### 7. Exhaust System

**Pipeline length:** 8 m  
**Max. flow rate:** 400 m³/h

#### Certifications & Documentation

**CE marking:** Yes

**Safety certifications:** EU-standard compliant

**Additional available documents:**

User manual and process description  
Control circuits and wiring diagrams  
Risk analysis and health compliance  
EC Declaration of Conformity  
Test reports

