

BOUGATSOS COOLING TECHNOLOGY



G R O U P

BOUGATSOS CLEANROOM TECHNOLOGY

ABOUT US

BCT is an Engineering - Contracting Company, specialized in Cleanrooms Construction, HVAC Systems, Refrigeration and Special Industrial Air Applications (Dry Rooms, Degassing Systems and more).



We provide Turn-key Projects starting from initial Design, Developing Optimized Solutions working close to the customer and Delivering a final Project meeting the Industry needs. We make projects all over the world and for two Generations we collaborate with the Greek Manufacturing Community materializing Innovative Applications.

Our Services



Engineering Design



Consultation / Solutions Development



Turn Key Projects



Validation



Maintenance Contract





- **30+ years** in HVAC-R industry
- **150+ clients**
- **20+ countries worldwide**
- **1000+ projects**
- A stable **turnover** increase of **30% annually**
- Shortlisted in the **30% of the fastest growing companies** in the technical sector, for the year **2022** by ICAP's industry research



Cleanrooms Design, Construction & Validation

Cleanrooms Expertise



BCT group is specialized in Cleanrooms Design, Construction and Validation.

We also hold international certification in Cleanroom Technology & Cleanrooms Validation Process from Cleanrooms Testing and Certification Board – international.

We develop cleanrooms for euGMP Pharmaceutical Applications (GRADE A,B,C,D), for electronic applications (ISO 3 – ISO 8), for aseptic food packaging (ISO 5) or for medical or micro devices manufacturing.

Design scope:

- Total Compliance with GMP Standards and ISO 14644
- Zero cross-contamination RISK
- Sustainability, minimum energy footprint, LEAN Operation
- Expenditure optimization (CAPEX & OPEX)

CLEANROOM STRUCTURAL PART

CLEAN DESIGN CONCEPT

- Separate Materials & Personnel Flow
- Airlocks
- Rooms Overpressure from more clean to less clean
- Overpressure for cross-contamination elimination



CLEANROOM BUILD:

- Cleanrooms Construction with a Variety of Materials all Compliant with GMP Requirements.
- LAF, Special Finishes, Modular Ceiling System, Interlocks etc., Developed and Produced by BCT Group.

CLEANROOM HVAC SYSTEM

- Provide the necessary air flow to achieve the required Classification
- Maintain constant Temperature and Relative Humidity
- Achieve Differential Pressures and Pressure Cascades
- Safeguards Cross-Contamination Avoidance



CLEANROOM VALIDATION

Cleanroom Validation - Testing - Certification Elaboration of All tests according to ISO 14644. IQ, OQ Protocols according to ISO 14644, euGMP, FDA Requirements



Cleanroom Projects







Design, Construction & full Technical Support in:

- **HVAC Systems**
- **Refrigeration**
- **Special Industrial Air Applications**

INDUSTRIAL HVAC

& REFRIGERATION



BCT company's core expertise is the design and installation of HVAC and Refrigeration systems for Industrial Purposes.

Having developed numerous of solutions for almost all production processes BCT holds special know-how and experience to provide:

- ✓ Temperature Control and Heat Dissipation Manipulation
- ✓ Humidity Control
- ✓ Ventilation to meet specific Environmental Requirements
- ✓ Volatile Agents Control
- ✓ Particles Generation Control
- ✓ Low and Extra Low Temperature and Humidity Control

A photograph of industrial HVAC and refrigeration equipment installed on a rooftop. The equipment includes large, curved metal ducts and a white refrigeration unit. The rooftop is covered in gravel, and the sky is blue with some clouds.

INDUSTRIAL HVAC

& REFRIGERATION

Each HVAC system comprises of a number of subsystems which are tailored developed to meet industrial process requirements. Those are:

- ✓ Air Handling Systems
- ✓ Cooling Medium Systems
- ✓ Humidification Systems
- ✓ Pump Stations
- ✓ Air Distribution Circuits
- ✓ Cooling/Heating Medium Piping
- ✓ Power & Control
- ✓ Operation Monitoring

INDUSTRIAL HVAC

PROJECTS





PROCESS COOLING



Almost all products require process cooling but most frequently:

- Milk after pasteurization
- Chocolates Tempering process
- Cooling tunnels (apart from freezing tunnels)
- Double wall mixers (food and pharma)
- Cables after vulcanization
- Plastic casting molds
- Extrusion processes

Process cooling aims in providing cooling to products during the production process.

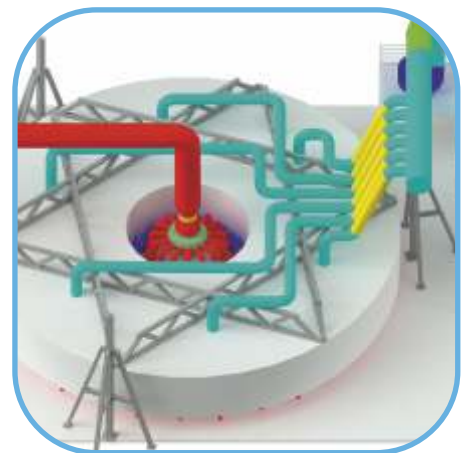
SPECIAL INDUSTRIAL AIR APPLICATIONS



DEGASSING

Degassing is a very important process in submarine cables production aiming in the removal of insulation Methane and other Volatiles.

It is also performed in other manufacturing processes such as drying after coating. Our company has implemented several degassing systems for submarine cables production and holds special know-how in systems design, construction and commissioning.





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