



BUILT STRONG FOR HARSH CONDITIONS

LUFT HVAC OFFSHORE EQUIPMENTS

**ACCORDING TO DIN EN 1886
(07/2009) STANDARDS**



ABOUT LUFT



Since 2018, the LUFT brand has been carrying out its production activities with advanced technology and expertise in its 25,000 m² indoor facility located in Bandırma, serving the HVAC sector.

LUFT AS manufactures air handling units and systems under the “LUFT” brand at high technology and in conformance with international standards at its plant in Balıkesir, Turkey with an enclosed manufacturing space of 25,000 m² and its R&D center. Utility models and patents of all product designs are registered to Luftsas AS.

LUFT air handling units are designed with innovative technologies and manufacturing standards, on the basis of the “EN 1886 Ventilation for buildings. Air handling units” standard.

The designs were based on the EN 13053, EN 13779 standards, the requirements of “ECO-DESIGN in ventilation units” of the European Union energy commission, and on EUROVENT criteria.

Luftsas AS is the main implementation distributor of the BLYGOLD corrosion prevention systems of Dutch origin, and has embraced as its vision the manufacturing of durable units with high corrosion resistance for all its products and services.

- ✓ Comfort, Industrial, Offshore/Onshore, and Marine Type Modular Air Handling Units,
- ✓ Industrial Condensing Units.
- ✓ ACCU (Air Cooled Condensing Unit)
- ✓ WCCU (Water Cooled Condensing Unit)
- ✓ SWCCU (Sea Water Cooled Condensing Unit)
- ✓ PACCU (Packaged Air Cooled Condensing Unit)
- ✓ WCCPU/SWCCPU (Water Cooled / Sea Water Cooled Packaged Unit)
- ✓ Vertical Split Ducted DX Unit
- ✓ Vertical Type Fan Coil Unit

QUALITY MANAGEMENT



INPUT QUALITY CONTROL

All materials used in the manufacturing of LUFT Air Handling Units have Technical Specifications that meet the requirements of the LUFT-Q Quality Brand. Products that do not meet these criteria are not used in LUFT Air Handling Units. All products are subjected to Input Quality Control on an individual basis before entering the warehouse. Products that fail to meet criteria can not enter the factory.



PROCESS QUALITY CONTROL

LUFT Air Handling Unit manufacturing stages comprise three main stages which are the Raw Materials Handling Process, Intermediate Product Preparation Process, and the Final Assembly Manufacturing Process. Process Quality Control Procedures have been defined for all these main stages, and their subordinate stages, with controls being implemented at each stage, which prevent the product from entering a subsequent stage in case of any failure to meet criteria. In this way, the manufacturing is completed by achieving the optimum point in the Quality - Time - Cost triangle as the process reaches the end product.



FINAL QUALITY CONTROL

Products that pass through the Input Quality Control and Process Quality Control points without any problems are checked while they are in operation at the Final Quality Control point.



FAT

LUFT guarantees that LUFT air handling units shall be manufactured to meet all customer requests and all project details. To this end, the FAT test is carried out for products when requested, to ensure customer satisfaction. Detailed tests are performed under the following headings as part of the FAT test, and the results are reported.

PACCU

PACKAGED AIR COOLED CONDENSING UNIT

- ✓ Plug and play modular construction
- ✓ Zone1- Zone2-Safe Zone Selections
- ✓ Enclosed cabinet (marine-coated, salt spray tested)
- ✓ Combines cooling, heating and controls in a compact unit, saving space offshore
- ✓ Stainless steel frame& panel (SS316L /SS304)
- ✓ SS316L Coils & C5-M Level Corrosion Protective Coating Coils
- ✓ High Protection class (IP66 electrical panels, optional ATEX compliance)
- ✓ Capacity Range: 25-250 kW



WCPU/SWCPU

WATER / SEA WATER COOLED PACKAGED UNIT

- ✓ Works with closed-loop freshwater and sea water systems , ensuring efficient heat rejection and internal protection; ideal for platforms and Vessels with centralized freshwater cooling
- ✓ Combines cooling, heating and controls in a compact unit, saving space offshore
- ✓ Stainless steel frame& panel (SS316L /SS304)
- ✓ Concealed mounting with low noise levels
- ✓ Compact vertical installation
- ✓ Capacity Range: 10-170 kW



AHU

AIR HANDLING UNIT

- ✓ Directive 2014/34/EU – ATEX Zone 1/
Zone 2 Certificated Products
- ✓ ADNOC /NORSOK Standarts
Compliant Products
- ✓ Stainless steel frame and casing (SS316L)
- ✓ Blygold Corrosion Protective Coating Coils
- ✓ Stainless steel plenum fans
- ✓ IP56/IP66 rated electrical accessories with
optional ATEX Zone 1 / 2 compliance



- ✓ High Efficiency filtration
- ✓ Stainless Steel -ATEX certified accessories (Optional)
- ✓ Mechanical Strenght -Casing Air leakage FAT Test (Optional)
- ✓ EN 1886 Design Standards Casing : TB1,T2,D1,L1,F9 class
- ✓ Air Flow Capacity : 1000 -200.000 m3/h

WCCU/ SWCCU

WATER / SEA WATER COOLED CONDENSING UNIT

- ✓ Constructed with marine-grade materials and coated heat exchangers to ensure long-term durability in marine environments.
- ✓ Compatible with both seawater and freshwater cooling systems, allowing flexible integration across various offshore platforms .
- ✓ Provides energy savings and stable performance with high efficiency water cooling unit.
- ✓ Complies with offshore standards such as DNV, ABS, BV
- ✓ Maintains reliable operations under varying temperatures and water quality .
- ✓ Capacity : 170 -1206 kW



ACCU

AIR COOLED CONDENSING UNIT

- ✓ Resistant to marine conditions with stainless steel, C5-M level corrosion protection coating, and anticorrosion hardware.
- ✓ Compact and durable for offshore platforms and vessels.
- ✓ Reliable under high humidity and temperature fluctuations.
- ✓ Stable performance with energy-efficient compressor and optimized heat exchangers.
- ✓ Compliant with offshore standards
- ✓ Capacity Range : 15-1250 kW



VERTICAL SPLIT DUCTED DX UNIT

- ✓ Compact vertical installation
- ✓ Ducted cooling for uniform air distribution
- ✓ Concealed mounting with low noise levels
- ✓ Compatible with marine electrical panels
- ✓ Capacity Range : 10 - 170 kW



VERTICAL TYPE FAN COIL UNIT

- ✓ Built with stainless steel and corrosion-resistant materials for harsh marine and saltwater conditions, ideal for offshore use.
- ✓ Advanced heat exchangers and powerful fans provide efficient cooling and heating in varying conditions.





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