

COUNT ON OUR EXPLOSION PROOF SOLUTIONS IN EVERY HAZARDOUS AREA YOU HAVE

APPLICATIONS AVAILABLE FOR THE FOLLOWING

- Offshore & Marine Vessels
- Dangerous Goods Warehouses
- Petrochemical and Power Plants



COMPLETE EQUIPMENT RANGE

- AHUs, FCUs, Chillers, Condensing Units
- Split Units
- Packaged Units
- Ventilation Fans



ZONES		
Dangerous explosive atmosphere	Ignitable concentrations of flammable gases, vapour are likely to exist during normal operations or frequently because if repair, maintenance operations or leakage. This can be defined as 10-1000 hours a year.	Ignitable concentrations of flammable gas or vapors is not likely in normal operation occur only for short period of time or become hazardous only in case of an accident or some unusual operating condition. This can be defined as under 10 hours per year.
Gas CENELEC/IEC/ NEC 505	Zone 1	Zone 2
Dust CENELEC/IEC/ NEC 506	Zone 21	Zone 22

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TEMPERATURE CLASSIFICATION		
Maximum equipment surface temperature	Gas Temperature Classes Equipment marking according to CENELEC/IEC/NEC 505 For dust it is an indication of max surface	
450°C	T1	
300°C	T2	
200°C	T3	
135°C	T4	
100°C	T5	

T6

GROUP	
IEC / CENELEC	/ NEC 505 / NEC 506
Group I	Mines susceptible to firedamp
	Methane
Group II	Explosive gas atmosphere
Subdivisions	Typical gas
IIA IIB IIC	Propane Ethylene Hydrogen Acetylene
Group III*	Explosive dust atmosphere
Subdivisions	Typical of dust
IIIA	combustible flyings
IIIB	non-conductive dust
IIIC	conductive dust * According to IEC 2007, CENELEC 2009

EXPLOSION PROOF HVAC&R IN SOUTH KOREA FOR ITALIAN BARGE FLOATING PRODUCTION UNIT DEPLOYED IN INDONESIA



Customer	Hyundai Heavy Industries Co Ltd, South Korea
Owner / Deployment	Saipem of Italy / Kutei Basin, the Makassar Strait, East Kalimantan, Indonesia
VA Project Ref	VAT1843
Vessel Name and Type	Barge Floating Production Unit (FPU) for The Jangkrik Complex Development
Commencement and Completion	13 November 2014 -18 March 2017
Class Notation / Regulations	BKI/DNV-GL
Viking Airtech Scope	10 AHUs Zone 2 Group IIA Temperature Classification T3, 10 Fans Ex-proof Motor Zone 1 Group IIA Temperature Classification T3, 30 Fans Ex-proof Motor Zone 2 Group IIA Temperature Classification T3 for Living Quarters, Provision Refrigerant Plant with 2 Condensing Units, 3 Fan Coil Units and PLC Electric Control Panel
Vessel Size	83,000 barrels of oil equivalent per day produced



85°C

21 Kian Teck Road, Singapore 628773 **Tel:** +65 6601 9500 **Fax:** +65 6601 9600 **Email:** info@vikingairtech.com

Singapore – Malaysia – Indonesia – China







