Hytech Auxiliary Power Unit (HAPU)







HAPU – Hytech Auxiliary Power Unit is design to supply hydraulic for ring line. Built in solid frame for protection during transport and operation process.

Solid a robust design contains double 170 kW power trains with total capacity of 650 l/min at 207 Bar. 7,5 kW cooling pump and plate sea water cooler provides continues operation even in middle east environment.

To ensure hydraulic oil volume, unit has 3000 liter tank equipped with visual level indicator, level and temperature sensor and tank breather.



HAPU - Features & Benefits:

- Atex Zone 2
- Built in solid steel frame
- High quality offshore surface protection - NORSOK
- Internal filtration and cooling system
- Built-in soft start system to protect critical components



Revision. 11-2021

www.hytech.no



Hytech Auxiliary Power Unit (HAPU)

Specifications:

Description	Data	
Power Supply	690 VAC 50 Hz	
Termination Points		
Main Pressure Ports	2x 1 ½" ISO 6162-2	
Secondary Pressure Ports	3x ¾" NPT F	
Main Return Port	2 ½" ISO 6462-1	
Secondary Return Port	1" ISO 6162-1	
Drain Port	2x 1" NPT F	
Water Port	2x 2" ASME RF	
ATEX / Ex Zone Classification	Zone 2	
Machine dimensions (L/W/H), transport	5000 x 2300 x 2210 mm	
Dry weight	10 000 kg	
Ambient temperature operation	– 10° to + 45° C	
Ambient temperature with Desert package (Optional)	– 10° to + 50° C	
Design temperature	– 20° to + 45° C	
Maximum humidity	95 %	
DC IS Power	3 x 20 mA = approx. 0,5 W	
Non IS Power	4 x 20 W =80 W	

Capacities:

Description	Data
Hydraulic capacity	650 I/min @ 207 Bar (170 GPM @ 3000 PSI)
Main electric motors	2 x 170 kW
Main pump size	250 ccm
Hydraulic Tank	3000 liter
Sea water cooler	89 kW
Cooling water requirements	700 l/min , max. 39°C





Hytech Auxiliary Power Unit (HAPU)

Specifications: Applicable standards

Standard	Standard Nr	Standard Title
EU Directive	2006/42/EC	Machinery Directive
EU Directive	2014/34/EU	ATEX Directive
EU Directive	2009/104/EC	Use of Work Equipment Directive
EU Directive	2014/35/EC	Low Voltage Directive
EU Directive	2014/68/EU	Pressure equipment PED Directive
EN	1993-1-1:2005	Eurocode 3 - Design of steel structures, part 1
EN-ISO	80079-36:2016	Explosive atmospheres - Part 36: Non-electrical equipment for
		explosive atmospheres - Basic method and requirements
EN	1127-1:2019	Explosive atmospheres - Explosion prevention and protection - Part 1
		Basic concepts and methodology
EN 15	15198:2007	Methodology for the risk assessment of non-electrical equipment and
	13196.2007	components for intended use in potentially explosive atmospheres
EN-ISO	12100:2010	Safety of machinery – General principles for design – Risk assessment
		and risk reduction
ISO/TR	14121-2	Safety of machinery — Risk assessment — Part 2: Practical guidance
		and examples of methods
EN-ISO	4413:2010	Hydraulic fluid power — General rules and safety requirements for
		systems and their components
EN-ISO	4414:2010	Pneumatic fluid power - General rules and safety requirements for
		systems and their components
EN-ISO	14122:2016	Safety of machinery – Permanent means of access to machinery



Revision. 11-2021

Mail: post@hytech.no Phone: +47 51 71 54 40

www.hytech.no