



**Flexible Compact complete Screw compressor Unit Based on an SAB233E NH3
Original build by JCI Denmark.
Year of build : 2011- new water cooled oil cooler of 2014.**



Description compressor in general :

The Compressor unit is very compact based on a horizontal 3 Stage oil separator. The final stage constructed by original JCI fine oil separator elements. The compressor SAB233E is one the last generations , designed for VSD Drive and low energy consumption. The oil separator in this unit is type approval oil separator, suitable for a wide range of operation -45/+45°C.

The compressor block SAB233E is suited with an electronic part load indicator, which supplies a 4-20mA signal to the latest model stand-alone controller: The UNISAB Pro III . The UNISAB Pro III is a very Compact Compressor controller, which is one of most known controllers in the international Refrigeration by all technical engineers . Several operational languages are pre-installed.



RM Support BV

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E-motor :

The compact connection between E-motor and compressor is based on a B5 connection . At this moment there is a 132 kW E-motor installed based on 2950 RPM.

The E-motor is suited for operation 50/60Hz.

Installed oil cooler:

The installed oil cooler is a water/ Glycol cooled KS 20 of 45 kW of 09/2014. The oil cooler is modified to a Water/ Glycol version, due to the re-use of energy. Energy recovery is a hot item in Europa on this moment .

The installed Brand is HS –Coolers one of the oldest manufactures of heat exchangers in Europa the company Wittenberg GmbH. HS-coolers have a history of a long-term trouble free operation. Unique to the HS-Cooler model KS20 is the very low pressure drop on the oil side, which improved the lubrication oil pressure towards compressor for stable operation.

Technical details:

The swept volume of SAB233E block is 2284,5 m3/h by 50Hz (2950 rpm)

The unit is built as low stage compressor unit :

Operation condition	Capacity kW
-40°C/-5°C	455
-30°C/-5	759
-20°C/-5°C	1206

Additional possibilities to include by the sale:

- Modifications of the unit to match other working conditions.
- Modification to electro controllers – design of Starter panels.

The unit can be offered :

- As it is – loaded on a truck/ in container .
- Additional Services :
 - Tested on leakage – with test report.
 - Axial measurement of the compressor with inspection report
 - Complete overhaul of the compressors.
 - Warranty 3 month- 6 month’s (only by overhauled compressors)



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