



PRODUCT INFORMATION FOR KEMOPAC™ COMPRESSOR PACKAGES



Two stage rotary lobe blower package for oxygen VPSA application

KEMOPAC™

skid packages based on rotary lobe type blowers and claw compressors are designed and built to meet our client's needs and are specially adapted to the application and gas in question. They are designed and delivered complete with local control panel with monitoring instruments, piping, valves, silencers and/or acoustic hood as a complete unit.

Own design / full responsibility

The packages are designed by our own engineering department using 3D-CAD modeling. Kemostal adapt to special requirements, local regulations and other demands and take full responsibility for complete delivery.

Added value

As standard we offer all our systems including our patented Advanced Filter Collector System (AFC) for high cleanliness of the lubricant used. The AFC System has proven to ensure considerably higher reliability during operation and longer intervals between services compared to traditional filter systems. (see separate product leaflet)

General data Kemopac Lobe

Flow capacities from 100 to 12000 m³/h
 Pressure ratio 1:2,25 per stage
 Power up to 300 kW per stage, 50 or 60 Hz



General data Kemopac Claw

Flow capacities from 30 to 850 m³/h
 Pressure ratio 1:4 per stage



Materials Lobe Type

Standard material blower rotors ductile iron, casing cast iron. On request all stainless steel or with different types of lining for corrosive applications. Base frame, machine table and main gas piping in coated CS. On request all piping in stainless steel.

Standards

CE-norm, PED, ASME with third party inspection. For oxygen compressors special cleaning of all details. Offshore standards when applicable. Nitrogen blanket prior delivery.

Materials Claw Type

Standard material cast iron. On request with different types of coating and lining for corrosive applications. Base frame and main gas piping in coated CS. On request all piping in stainless steel.

Tests

Blower hydrostatic pressure, and seal leakage tests as standard. Mechanical test run of complete unit prior to delivery. PTC-9 slip test as option. Witnessed tests as option and upon request.

**BLOWER PACKAGES – PROCESS GAS REFERENCES****HYDROGEN**

Single stage hydrogen blower system supplied to chemical process plant in Sweden. The unit is delivered with an acoustic hood (7,0 x 3,1 x 3,8 m).

Medium:	Hydrogen
Flow:	19000 Nm ³ /h
Inlet temperature:	45°C
Inlet pressure:	3000 mbara
Diff. pressure:	400 mbar
Outlet pressure:	3400 mbara
Power:	232 kW



The system is equipped with an innovative pulsation damper design rarely seen in this type of application before.

**MECHANICAL VAPOUR RECOMPRESSION**

Two stage vacuum/pressure blower system for recombination of water vapour in chemical plant in Norway.

Medium:	Water vapour
Flow:	4000 Nm ³ /h (3000 kg/h)
Inlet pressure:	0,6 bar
Diff. pressure:	1,8 bar
Outlet pressure:	2,4 bar
Installed power:	2 x 315 kW

**HYDROGEN CHLORIDE**

Two each two stage blower skid packages for chemical production plant in Portugal. Full stainless steel blowers and piping for aggressive gas composition.

Medium:	HCl
Flow:	1600 Nm ³ /h
Inlet pressure:	1,3 bar
Diff. pressure:	1,1 bar
Outlet pressure:	2,4 bar



**KEMOPAC™ – OXYGEN REFERENCES**

Single stage skid system for glass manufacturing plant in China. Water cooler for recirculation of up to 100% of gas flow and blow off regulating valve enables full controllability for the operator.

Medium: O₂
 Flow: 3300 Nm³/h
 Inlet pressure: 1,3 bara
 Diff. pressure: 0,8 bar
 Outlet pressure: 2,1 bara
 Installed power: 132 kW



Two stage oxygen blower package for VPSA plant in Poland. Single motor for both stages and standard type containerized acoustic hood for noise attenuation to below 85 dBA.

Medium: O₂
 Flow: 930 Nm³/h
 Inlet pressure: 1,3 bara
 Diff. pressure: 1,2 bar
 Outlet pressure: 2,5 bara
 Installed power: 55 kW



Single stage system for VPSA unit at glass fibre production plant in the Moscow region in Russia. Standard AFC lubricant cleaning system visible on right front of the unit providing up to 40,000 hours of trouble free operation and low maintenance needs.

Medium: O₂
 Flow: 1490 Nm³/h
 Inlet pressure: 1,1 bara
 Diff. pressure: 0,9 bar
 Outlet pressure: 2,0 bara
 Installed power: 132 kW



Two stage oxygen VPSA unit for industrial glass manufacturing plant in France. Inter stage cooler and after cooler for recirculation purposes.

Medium: O₂
 Flow: 3210 Nm³/h
 Inlet pressure: 1,0 bara
 Diff. pressure: 2,7 bar
 Outlet pressure: 1,7 bara
 Installed power: 2 x 75 kW



KEMOPAC™ – OFFSHORE REFERENCES



NITROGEN

Acoustic enclosure for nitrogen blower. The unit is part of a larger water purification plant for the Glitne off-Shore site.

All gas exposed parts manufactured in aluminum bronze material.

Medium:	N ₂
Flow:	1840 Nm ³ /h
Inlet pressure:	5.23 bara
Diff. pressure:	1.26 bar
Outlet pressure:	6.49 bara
Power:	30 kW

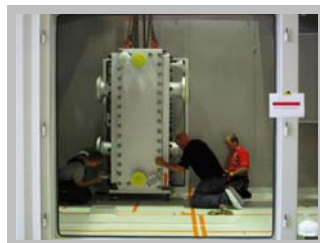


VAPOUR RECOVERY

Two each single stage HC blower packages for Offshore FPSO unit (Floating Production, Storage and Offloading vessel).

Medium:	Hydrocarbon vapors
Flow:	4400 Nm ³ /h
Inlet pressure:	1,0 bara
Diff. pressure:	1,35 bar
Outlet pressure:	2,35 bara
Installed power:	250 kW

Decreases emissions by recovering the gas vapors into gas turbines circuit.



Containerized acoustic enclosure for ease of transport, protection of equipment and noise attenuation to below 80 dBA.

One unit in operation and one as back-up.

