

new

BIOGAS application

Blower package

Robuschi is pleased to introduce the **new ROBOX evolution**, especially developed, for the **conveying and compression of biogas, as well as natural and landfill gases in power generation plants.**

The blower group has the **same capacity, from 240 up to 2850 m³/h**, and **differential pressure, from 100 up to 1000 mbar**, as the standard ROBOX evolution version.

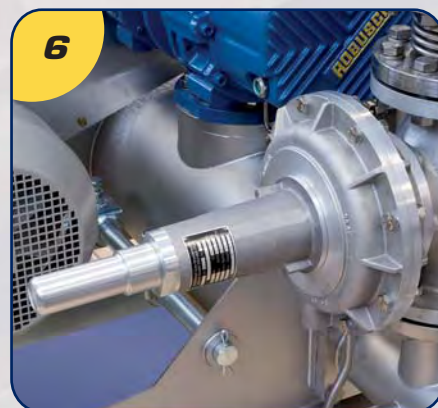
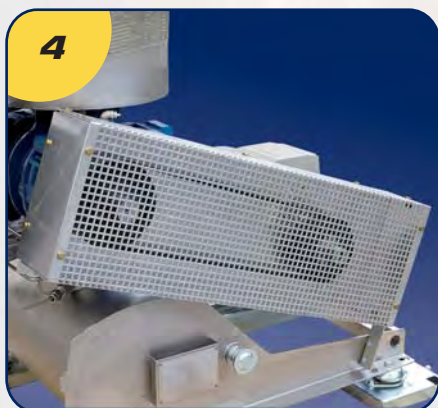
This special Unit for BIOGAS application maintains all the innovative characteristics of the ROBOX evolution: **silence, compactness and easy maintenance.**

The **Blower Biogas Package** has also been certified, according to the most important and recent **EC guideline 94/9/EC (ATEX) - group II in category 2**, in order to guarantee the best safety usage in this range of application.



ROBUSCHI®
ROBOX
evolution





- 1- **Blower stage:** with gastight sealing of the driving shaft. It is available, optionally, the blower with a special anticorrosion coating protecting all the blower's components in contact with the gas. The blower is explosion-proof tested and certified up to 12 bar.
 - 2- **Suction silencer:** 1.3 bar overpressure PED certificated special design silencer, fabricated in hot galvanized steel with drainage and 12 bar explosion-proof tested. It is also available in the stainless steel version as optional.
 - 3- **Baseframe with discharge silencer:** 1.3 bar overpressure PED certificated baseplate and special design discharge silencer, fabricated in hot galvanized steel with drainage device and 12 bar explosion-proof tested. It is also available in the stainless steel version as optional.
 - 4- **Spark safe belt guard** in stainless steel.
 - 5- **Instruments panel:**
 - Inlet and outlet pressure gauge indicators:** diaphragm manometer complete of stainless steel accessories (tap and pipes) in ATEX version.
 - Temperature protection switch** in ATEX version
 - Pressure protection switches** (optional)
 - 6- **Pressure regulator with bypass** for keeping outlet pressure constant (optional).
The standard version is equipped with a safety relief valve and a non return VRC valve in ATEX version.
Axial compensators in suction and discharge side in stainless steel.
- The following components are available in addition to the standard version:
 - Sound enclosure
 - Start up valve with unloading device
 - Stainless steel gas humidity drainage system with tank

Other special designs are available upon request.



PERFORMANCES

	ROBOX evolution BIOGAS 1	ROBOX evolution BIOGAS 2	ROBOX evolution BIOGAS 3
RANGE	RBS 15 - 25 - 35	RBS 35 - 45 - 46 - 55 - 65	RBS 65 - 66 - 75 - 85 - 86
Pressure max. (mbar)	100 - 1000	100 - 1000	100 - 1000
Capacity (m³/h)	240 - 480	480 - 1080	1370 - 2850