BIOGAS application

Blower packages

ROBUSCH®
ROBOX evolution

CRBIO

ROBUSCH®
PUMPS AND BLOWERS

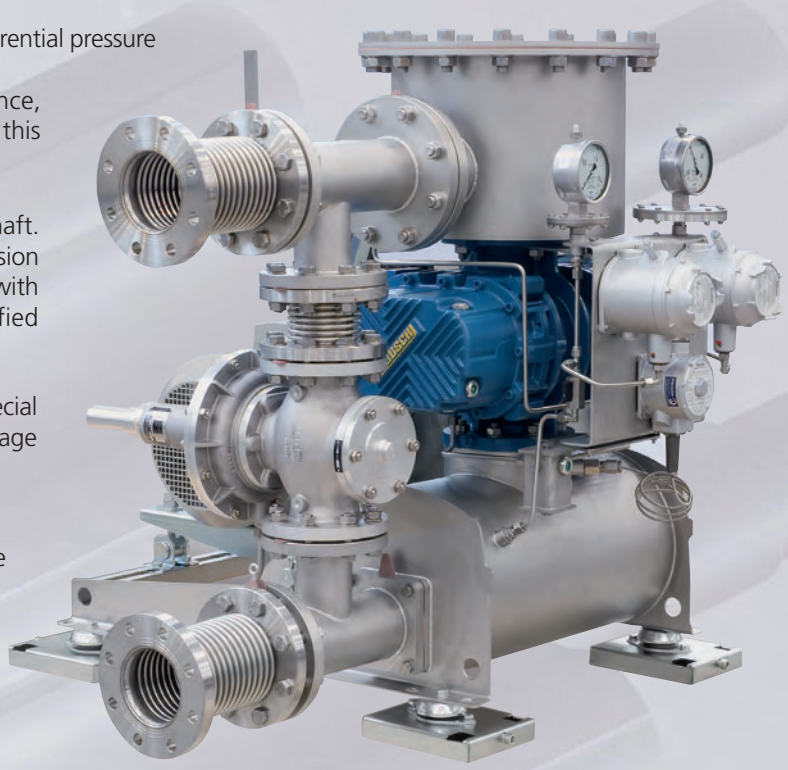
BLOWER PACKAGES - biogas application

Robuschi is pleased to introduce the new solutions for BIOGAS applications, especially developed, for the **conveying and compression of biogas, as well as natural and landfill gases in waste water treatment and power generation plants.**

The Blower Biogas Packages have 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.

ROBOX *evolution* BIOGAS

Blower package units, with capacity **up to 2850 m³/h** and differential pressure **up to 1000 mbar**.
The innovative characteristics of the ROBOX evolution: silence, compactness and easy maintenance, remain the hallmarks of this new blower BIOGAS group.



1 • **RBS 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 ATEX version.

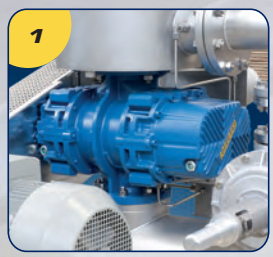
5 • **Instruments panel:**
- **Inlet and outlet pressure gauge indicators:** diaphragm manometer complete of stainless steel accessories (tap and pipes) in ATEX version.
- **Temperature protection switch in ATEX version**
- **Pressure protection switches** (optional)

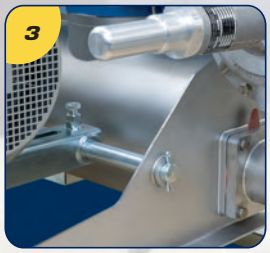
6 • **Pressure regulator with bypass** for keeping outlet pressure constant (optional).The standard version is equipped with a safety relief valve and a non return VRC valve in ATEX version.

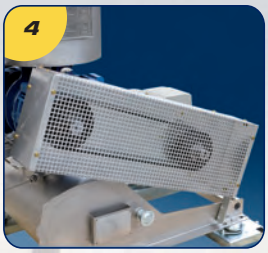
Axial compensators in suction and discharge side in stainless steel.

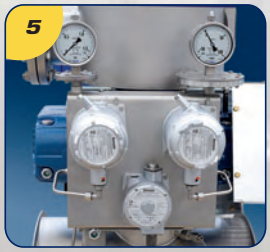
- The following components are available in addition to the standard version:
  - *Sound enclosure*
  - *Stainless steel gas humidity drainage system with tank*

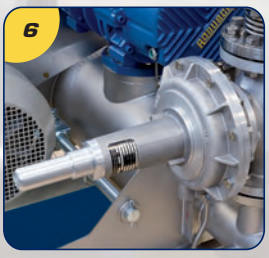
Other special designs are available upon request.











PERFORMANCES

	ROBOX evolution BIOGAS 1	ROBOX evolution BIOGAS 2	ROBOX evolution BIOGAS 3
RBS RANGE	15-25-35	35-45-46-55-65	65-66-75-85-86
Pressure min/max (mbar)	1 / 1000	1 / 1000	1 / 1000
Capacity min/max (m³/h)	240 / 400	400 / 1080	1370 / 2850

CRBIO

Blower package groups, assembled on a skid, with capacity **up to 3280 m³/h** and differential pressure **up to 400 mbar**.
It is available with pulley - belt transmission and directly coupled.

7 • **RBS blower stage:** with the same features of the ROBOX evolution version.

8 • **Steel base** with anti-vibration mounts

9 • **Non return valve**

10 • **Galvanized and / or painted piping**

11 • **By-pass safety relief valve**

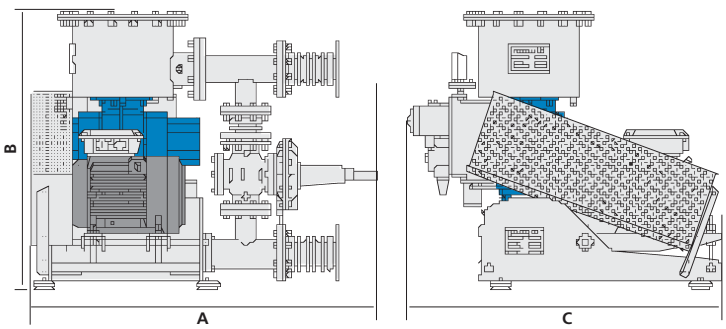
12 • **Coupling guards in ATEX version**

- The following components are available in addition to the standard version:
  - *Pressure regulator with bypass for keeping outlet pressure constant*
  - *Inlet and outlet pressure gauge indicators in ATEX version*
  - *Temperature protection switch in ATEX version*

PERFORMANCES

	CRBIO 1	CRBIO 2	CRBIO 3
RBS RANGE	15-25	35-45-46- 55-65-66	75-85-86
Pressure min/max (mbar)	1 / 400	1 / 400	1 / 400
Capacity min/max (m³/h)	40 / 350	100 / 2040	570 / 3280

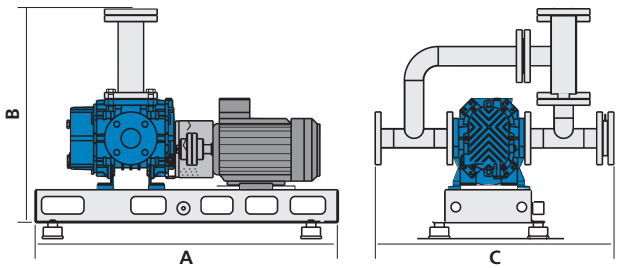
DIMENSIONS AND WEIGHT



ROBOX *evolution* BIOGAS

EL	15/1	25/1	35/1	45/2	46/2	55/2	65/2	65/3	66/3	75/3	85/3	86/3
A	844	862	862	1161	1211	1196	1235	1630	1630	1630	1630	1670
B	745	745	745	1070	1070	1122	1122	1595	1435	1515	1515	1515
C	912	912	985	1265	1265	1265	1265	1695	1695	1695	1695	1695
Kg*	75	80	235	245	260	295	310	435	465	495	535	605

* Without motor



CRBIO

CRBIO	15/1	25/1	35/2	45/2	46/2	55/2	65/2	66/2	75/3	85/3	86/3
A	950	950	950	950	1100	1800	1800	1800	1800	1800	1900
B	630	630	670	670	670	1035	1035	1155	1065	1185	1185
C	726	726	822	822	822	815	815	815	1410	1410	1410

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