



BIOMETHANE

PB Series

adcomp[®]
ADVANCED GAS COMPRESSORS

Dry gases applications



PB115 -18,5

SUCTION PRESSURE:
up to 16 bar(g) | 233 psi(g)

OPERATING PRESSURE:
up to 100 bar(g) | 1450 psi(g)

FREE GAS DELIVERY:
up to 1700 Nm³/h | 1059 SCFM

ADSORBED POWER:
15 < 200 kW | 20 < 270 hp

HOW IT WORKS

Single or double acting horizontal or "W" reciprocating gas compressor. It is designed with one, two or three conrods and several sizes of cast iron or forged cylinders to be adaptable to different solutions. It can be a single, double or three stages unit, installed on an adequate steel structure.

Main scope of supply:

- suction valve
- single or multi stage reciprocating pump
- inter-stage and final air-cooled fan assisted aftercooler
- coalescent type oil filter
- shut-off valves at suction and discharge
- safety valves at each stage
- electric motor IG3

All necessary instrumentation is included in accordance with manufacturer standard. A proportional by-pass valve is used to recirculate the excess gas to reduce the flow rate from the value at minimum motor speed down to 0%.

MAIN APPLICATIONS

These gas compression stations are designed onto an easy handling skid or enclosure composed of single or a multi stage reciprocating block, belt driven or direct coupled by an electric motor inverter controlled.

Available with or without gas treatment system, this series has been designed for the following main applications :

- GAS GRID INJECTION
- FIELD GATHERING
- VAPOR RECOVERY
- CO₂ LIQUEFACTION



PB25

COMMITTED TO EXCEPTIONAL SOLUTIONS

The renowned Adicomp range of piston compressors PB25 is developed and manufactured by specialists from our parent company Termomeccanica located in Italy. These oil-lubricated machines are available up to 90kW / 125 hp and designed for continuous operation. The reciprocating models allow compression in up to three stages. A total of up to three cylinders are mounted in V or W arrangement. The compressors are the ideal solution for operation at atmospheric suction pressure or use as gas-tight boosters with pre-pressures up to 16 bar(g)/ 232 psi(g).

ONE OF THE 10000 SYSTEMS INSTALLED

PB115-18.5 Biomethane booster

- POWER INSTALLED: 22 kW | 30 Hp
- INLET PRESSURE: 12 bar(g) | 174 psi(g)
- WORKING PRESSURE: Up to 53 bar(g) | 769 psi(g)
- FLOW RATE: 0<55<110 Nm³/h | 0<34<69 SCFM
- AMBIENT TEMPERATURE: -10/+40 °C | +14/+104 °F
- LOCATION: FRANCE



Plug & Play

All Adicomp compressors are designed for easy installation with no special operations needed. They arrive pre-configured, requiring only on-site electricity and gas supply, with commissioning services available for fine-tuning.



Full control over operation

Thanks to the use of a state-of-art PLC programming you can control the operation of the compression package, thereby ensuring a perfect use, even remotely.



Air or water cooled

All Adicomp compressors can be either air cooled or water cooled.



Experience counts

In more than 25 years of activity, we provided several hundreds of compressors worldwide, facing extremely different solutions that allowed us to acquire a high level of know-how acknowledged by the market.



Energy savings, flow control

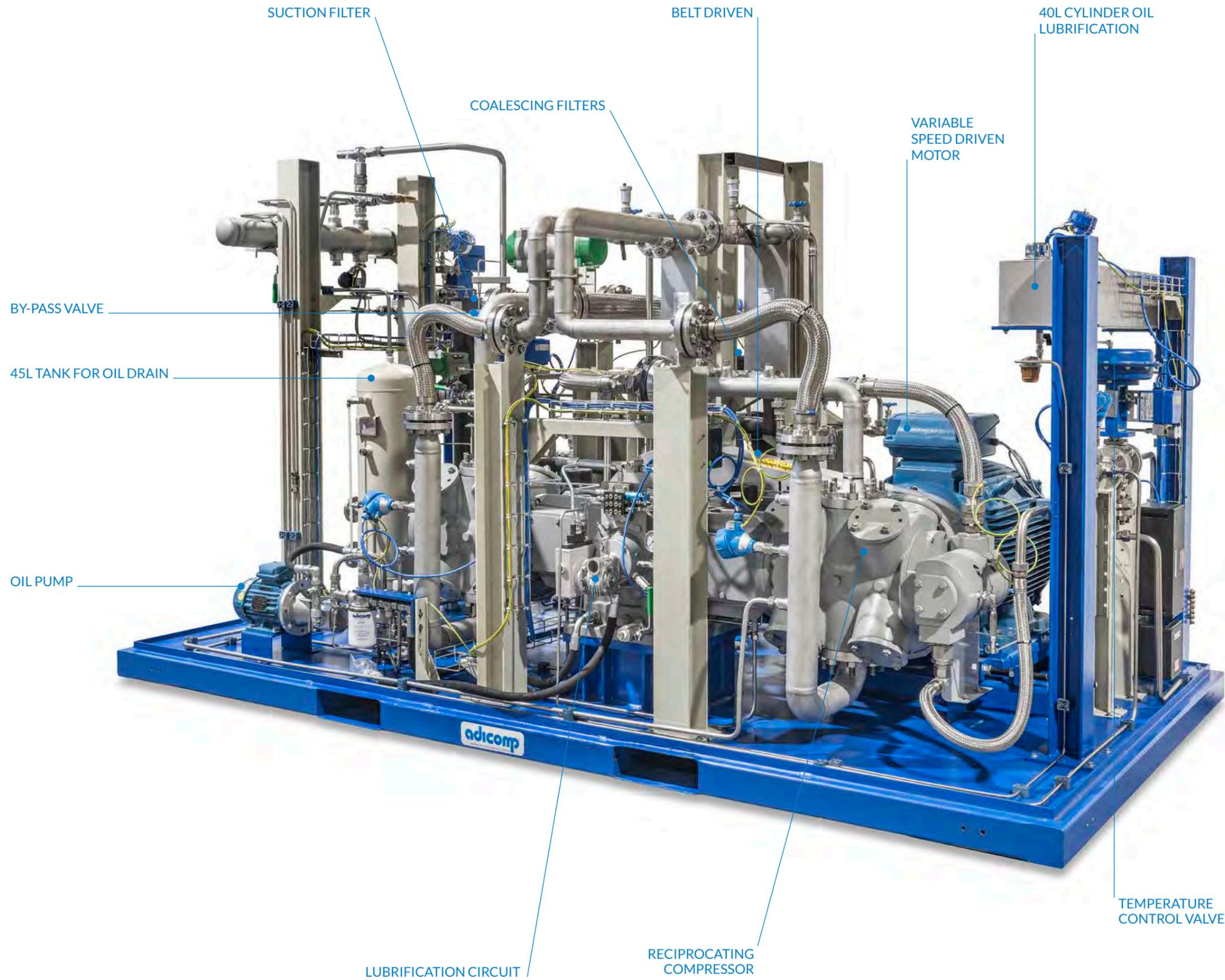
At Adicomp, we keep an eye on energy savings. Our compressors are designed to reduce their power consumption as much as possible by always adapting the capacity to the end user needs. Adicomp compressors are fully controlled by VSD, by-pass valve and/ or slide valve.



Customized approach

At Adicomp, products are manufactured to meet specific customer needs. Not vice versa. We listen to customer requirements and then transmit them to the engineering department to provide the best solutions. Flexible and reliable, always.

Product overview



Available Options

- (S) SILENCIED
- (WP)-(WS) WEATHERPROOF
- (GOH) WATER COOLED
- (OW) GAS OUTLET REFRIGERATING COOLING SYSTEM
- (GH) RE-HEATING GAS SYSTEM
- (BY2) PROPORTIONAL BYPASS VALVE
- (TC) CONTROLLED OUTLET GAS TEMPERATURE
- (LM) FILTERS PRESSURE INDICATOR
- (PL) PLC
- (MB) MODBUS, (PB) PROFIBUS & (PN) PROFINET REMOTE CONTROL SYSTEMS

Possible configurations

OPEN FRAME
Indoor installation
+3°C/+40°C | +37.5°F/ +104°F

WEATHERPROOF
Outdoor installation
-30°C/+40°C | -22°F/ +104°F

CONTAINER 40FT
Outdoor installation
-40°C/+40°C | -40°F/+104°F

Designed for worldwide installation

PB series codes & standards

MODELS

| | | | | |
|------------|----------|----------|------------|------------|
| PB 25-15 | PB 25-30 | PB 25-55 | PB 115-110 | PB 115-200 |
| PB 25-18.5 | PB 25-37 | PB 25-75 | PB 115-132 | |
| PB 25-22 | PB 25-45 | PB 25-90 | PB 115-160 | |



EU

Hazardous area classification: ATEX zone II
 Pressure vessel code compliance: PED
 Electrical code compliance: ISO60079
 Certified manufacturing organization: ISO 9001:2015 -14001:2015 -45001:2018



USA

Hazardous Area Classification: Class 1, Div 2 as defined per NEC, NFPA70
 Pressure Vessel Code Compliance: ASME
 Electrical Code Compliance: UL/Control panels and assemblies
 Certified manufacturing organization: ISO 9001:2015 -14001:2015 -45001:2018
 UL 508A, Standard for Industrial Control Panels
 UL 698A, Standard for Industrial Control Panels Relating to Hazardous (Classified) Locations
 NFPA 70 National Electric Code
 ASME B31.3, Process Piping



CA

Hazardous Area Classification: Class 1, Div 2 as defined per NEC, NFPA70
 Pressure Vessel Code Compliance: ASME -CRN
 Electrical Code Compliance: UL/Control panels and assemblies
 Certified manufacturing organization: ISO 9001:2015 -14001:2015 -45001:2018
 UL 508A, Standard for Industrial Control Panels
 UL 698A, Standard for Industrial Control Panels Relating to Hazardous (Classified) Locations
 NFPA 70 National Electric Code
 ASME B31.3, Process Piping



BR

Hazardous area classification: ATEX zone II
 Pressure Vessel Code Compliance: ASME-NR13
 Electrical Code Compliance: ISO60079 - NR10 Control panels and assemblies
 Certified manufacturing organization: ISO 9001:2015 -14001:2015 -45001:2018
 ASME B31.3, Process Piping



IN

Hazardous Area Classification: Atex zone II (PESO)
 Pressure Vessel Code Compliance: ASME
 Electrical Code Compliance: ISO60079 Control panels and assemblies
 Certified manufacturing organization: ISO 9001:2015 -14001:2015 -45001:2018
 ASME B31.3, Process Piping

Global Presence & Customer Service



Headquartered in Italy, Adicomp provides products and services all over the world through an extensive network of local offices and plants. With more than 25 years of experience and almost 10,000 skids in operation worldwide, Adicomp has grown to be a truly global international company, with a direct presence in over 50 countries and customers in more than 110. The primary driver for that worldwide footprint has been the need and willingness to operate close to our customers.

SPARE PARTS



Adicomp's spare parts ensure high quality and efficiency, offering tailored solutions for maintenance and fleet management. We provide global delivery and handle logistics for optimal transport solutions.

WORLDWIDE SERVICE PARTNERS



Adicomp offers global on-site support with skilled engineers, ensuring fast, quality service and international certifications. They provide assistance from design to installation and after-sales, ensuring reliability and customer satisfaction.

