

*Reciprocating compressors
for process gases and air*



**Boil-Off Gas oil-free reciprocating
compressors for LNG**

Low temperatures, high performances

Flexible and efficient BOG compressors: always the right solution in the right place

Flexible, efficient and high-performance oil-free cryogenic reciprocating compressors, operating at **inlet gas temperatures down to -274 F° (-170°C)**, designed for compression and re-liquefaction of Boil-Off Gas (BOG).

We have a proven track record in this sector, with numerous BOG compressors installed worldwide and all together totalling over a couple of millions working hours to date.

DIGITAL DESIGN - DIGITAL TWIN

Thanks to thermodynamic simulation software, proprietary modeling allows the investigation and simulation - on the digital twin model - of thermodynamic phenomena, even transient ones, occurring during compressor operation, enabling the analysis and selection of the most appropriate materials from the point of view of operation and cost optimization.

Realistic process prediction ensures perfect compressor efficiency.

- ✓ Specific selection of materials for wear components in contact with the cryogenic gas, such as piston rings, piston sliders, seals, etc., to ensure machine reliability and minimize maintenance.
- ✓ The intake and delivery valves are made of special steel alloys to give them the mechanical characteristics of high strength, toughness and fatigue strength even at low temperatures.
- ✓ Perfect thermal insulation of the process gas to ensure that compression takes place without heat transfer from the inside to the outside and vice versa.



COMPETITIVE ADVANTAGES



SIAD Macchine Impianti at the service of Green Industry

BOG compressors contribute to the ecological transition. By allowing the recovery of evaporated methane, they reduce waste and the release of greenhouse gases into the atmosphere.



BOG COMPRESSOR DURING TESTING WITH BOIL-OFF NITROGEN (-274 F° / -170 C°) at the SIAD production site in Bergamo, Italy

Watch the video
YouTube





BOG compressors - Courtesy of DIG (Depositi Italiani GNL), Small Scale LNG, Ravenna, Italy

BOG compressor range

FRAME	Crossheads	Stage	Min/Max speed	Max Power	Max Rod Load	Stroke	Max Power	Max Rod Load	Stroke
				Imperial Units			Metric Units		
	n.	n.	rpm	hp	lb	in	kW	N	mm
T	1/2/3	1-5	300 / 1,200	105	3,500	3 7/8	75	15,000	100
W	1/2/3	1-5	300 / 1,200	280	10,500	3 7/8	200	45,000	100
M	1/2/3	1-5	300 / 750	700	22,000	5 7/8	525	95,000	150
P	1/2/3	1-5	300 / 750	1,500	30,000	8 1/2	1,100	133,000	215
HM	2/4	1-6	300 / 750	950	22,000	5 7/8	700	95,000	150
HP	2/4	1-6	300 / 750	1,950	37,500	6 1/2 - 7 7/8	1,400	165,000	165 - 200
HD	2/4	1-6	300 / 750	3,280	55,000	6 1/2 - 10 7/8	2,400	240,000	165 - 275
HSF	2/4/6	1-6	490 / 1,200	8,700	78,000	5 3/8 - 6 1/4 - 7 1/4	6,400	350,000	135 - 160 - 185
HT	2/4/6	1-6	300 / 500	11,850	140,000	11 3/8 - 13 3/8	8,700	625,000	290 - 340

Applications

Cold gases transport and storage:

- ✓ LNG receiving terminal
- ✓ LNG carrier
- ✓ LNG bunker vessel
- ✓ FPSO
- ✓ FSRU
- ✓ Merchant ship
- ✓ Cruise ships and ferry

Oil & gas exploration and production:

- ✓ FLNG

For information:
info@siad-americas.com



You could also be interested in...

NATURAL GAS TREATMENT AND LIQUEFACTION PLANT "SMART LNG" by SIAD MI

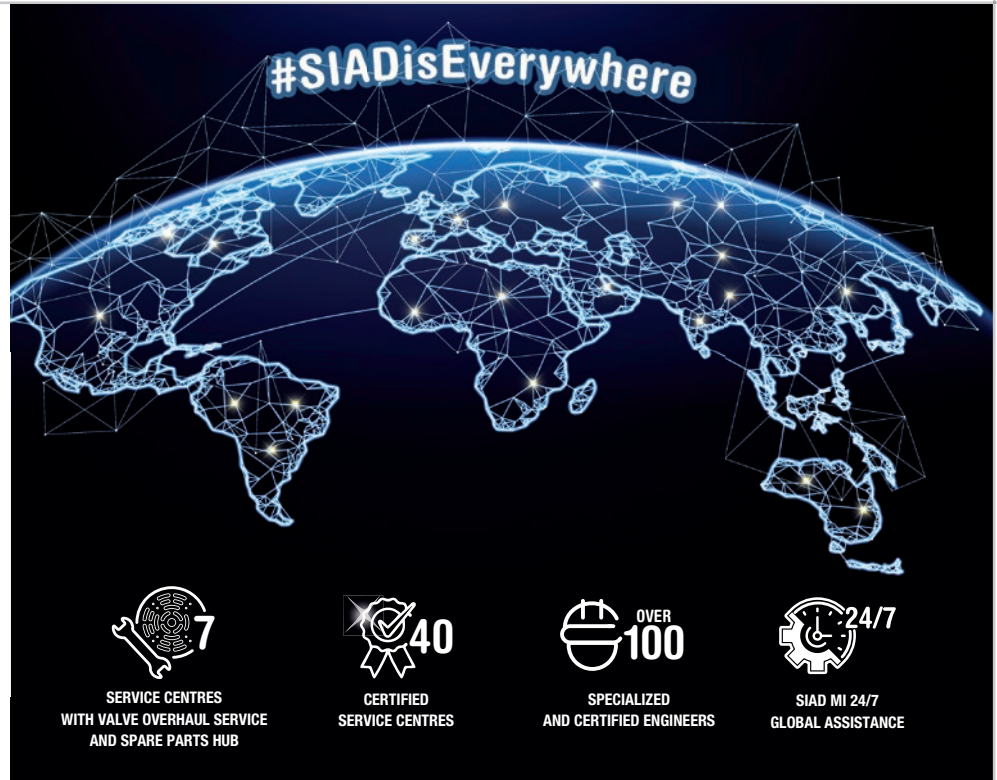


Global technical support services

Close to you,
wherever you are

- ✓ **Global presence**
Thanks to a worldwide network of owned and certified Service Centres, SIAD MI guarantee a rapid intervention to support your compressors and plants across all five continents.
- ✓ **Highly specialized technicians**
More than 100 certified technicians ensure the highest quality service assistance to customers throughout the world.
- ✓ **Constant updating and advanced technology**
SIAD MI technical staff periodically train the Service Centres through dedicated training courses which include the award of specific certifications. Thanks to the latest generation of tools, the Service Centres ensure advanced, timely and efficient assistance.
- ✓ **Continuous assistance**
SIAD MI 24/7 Global Assistance is the service that operates 24 hours a day, every day of the year, dedicated to managing the requests from SIAD MI's customers worldwide.

For information:
info@siad-americas.com



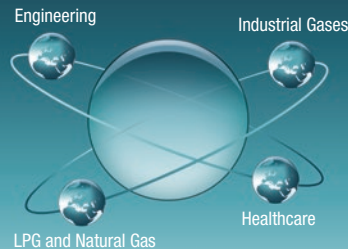
BOG COMPRESSORS: SMART AND ALWAYS CONNECTED

As with all SIAD MI compressors and plants, even the compressors dedicated to the compression or re-liquefaction of the Boil-Off Gas (BOG), they can be continuously monitored through the SIADMI4U platform. It is a remote monitoring and diagnostics system that allows you to view, analyze and manage, in real time, through a smartphone or PC, all the operating parameters of a compressor or a plant.

Watch the video
YouTube



The SIAD Group



Industrial Gases

SIAD S.p.A.
Via San Bernardino, 92
IT-24126 BERGAMO
Tel. +39 035 328111
www.siad.com - siad@siad.eu
GPS: N 45 40.57 - E 9 39.44

AUSTRIA
SIAD Austria GmbH
Bergwerksstrasse 5
AT-5120 ST. PANTALEON
Tel. +43 (6277) 7447-0
www.siad.at - siad_austria@siad.eu
GPS: N 48 01.34 - E 12 51.36

BULGARIA
SIAD Bulgaria EOOD
4, Amsterdam str. P. O. Box 28
BG-1528 SOFIA
Tel. +359 (2) 9785636
www.siad.bg - siad@siad.bg
GPS: N 42 39.15 - E 23 24.43

CZECH REPUBLIC
SIAD Czech spol. s r.o.
Prague Office Park II - K Hájům 2606/2b
CZ-155 00 PRAHA 5
Tel. +420 235097520
www.siad.cz - siad@siad.cz
GPS: N 50 03.21 - E 14 19.32

FRANCE
SIAD France SAS
Parc d'activités de Signes, espace Arusha
Avenue de Berlin
FR-83870 SIGNES
Tel. +33 (0) 498181463
www.siad.com - siad_france@siad.eu
GPS: N 43 25.66 - E 5 80.05

GERMANY
SIAD Germany GmbH
Zifling 1
DE-93497 Willmering bei CHAM
Tel. +49 (0)9971 858010
www.siad.com - siad_germany@siad.eu
GPS: N 49 23.78 - E 12 67.81

HUNGARY
SIAD Hungary Kft.
Zsigmondy u. 38.
HU-3527 MISKOLC
Tel. +36 (46) 501130 - Fax +36 (46) 501131
www.siad.hu - siad_hungary@siad.eu
GPS: N 48 07.25 - E 20 48.07

POLAND
SIAD Poland sp. z o.o.
ul. Kokotek 66
PL-41-700 RUDA ŚLĄSKA
Tel. +48 32 7711650
www.siad.pl - siad@siad.pl
GPS: N 50 18.25 - E 18 51.55

ROMANIA
SIAD Romania S.R.L.
Drumul Oșiei, 75-79, Sector 6
RO-062395 BUCUREȘTI
Tel. +40 (21) 3103658 - Fax +40 (21) 3149806
www.siad.ro - siad@siad.ro
GPS: N 44 26.26 - E 25 59.10

SLOVAKIA
SIAD Slovakia spol. s r.o.
Galvaniho 16130/7/B
SK-821 04 BRATISLAVA
Tel. +421 (7) 44460347
www.siad.sk - siad@siad.sk
GPS: N 48 16.48 - E 17 17.61

UKRAINE
LLC SIAD Ukraine
Konstantinovskaya street, 2A
UA-04071 KIEV
Tel. +7 495 9871217

LLC Remtekhgaz
Kolomojtsjevskaya street, 28
UA-50106 KRIVYI ROG
Tel. +38 093 3978017
www.rtg.com.ua

Arroweld Italia S.p.A.
Via Monte Pasubio, 137
IT-36010 ZANÈ - VI
Tel. +39 0445 80444
www.arroweld.com - arroweld@arroweld.com
GPS: N 45 43.18 - E 11 26.21

Bieffe Saldatura S.r.l.
Via Canubia, 9/1
IT-12100 MADONNA DELL'OLMO - CN
Tel. +39 0171 414711
www.bieffesaldatura.com - info@bieffesaldatura.com
GPS: N 44 25.30 - E 7 33.36

Tecnoservizi Ambientali S.r.l.
Via San Bernardino, 92
IT-24126 BERGAMO
Tel. +39 035 328111
www.tecnoserviziambientali.eu - info@tasrli.com
GPS: N 45 40.57 - E 9 39.44

Roboteco S.p.A.
Via Carlinga, 43
IT-24035 CURNO - BG
Tel. +39 035 5780303
www.roboteco-italargon.it - info@roboteco-italargon.it
GPS: N 45 40.35 - E 9 36.25

Engineering

SIAD Macchine Impianti S.p.A.
Via Ganovine, 2/4
IT-24126 BERGAMO
Tel. +39 035 327611
www.siadmi.com - siadmi@siad.eu
GPS: N 45 40.53 - E 9 39.44

AMERICAS
SIAD Americas LLC
Engineered Equipment
2001 Timberloch Place
Suite 500
The Woodlands, TX 77380
Tel. +1 346 380 1268
www.siad-americas.com - info@siad-americas.com
GPS: N 30 15 7.4 - W 95 46 76.188

CHINA
SIAD Engineering (Hangzhou) Co., Ltd.
17/F, Yizhan Business Bld., No.1 Wenyi West Rd., Xihu District
Hangzhou, 310012, Zhejiang Province, CHINA
Tel. +86 0571 85880480
www.siadmi.cn/hz - siad_cn@siad.eu
GPS: N 30 29 32.47 - E 120 12 43.68

SIAD Engineering Trading (Shanghai) Co., Ltd.
Rm.412, No. 5 building, No. 999 Ningqiao Rd.
Shanghai Pudong, 201206, CHINA
Tel. +86 021 50550066
www.siadmi.cn/sh - siad_cn@siad.eu
GPS: N 31 15.19 - E 121 37.4

GERMANY
SIAD Macchine Impianti S.p.A. Niederlassung Deutschland
Am Flughafen, 12
DE-60549 Frankfurt - GERMANY
Tel. +49 69 509589488
www.siadmi.com - siadmi_germany@siad.eu
GPS: N 50 05.26 - E 8.56.86

MIDDLE EAST
SIAD Macchine Impianti Middle East F.Z.C.
Warehouse H1-03, Gate 1
P.O. Box 1248
Ajman Free Zone - UAE
Tel./Fax +971 (0) 6 7427339
www.siadmi.com - siadmi_me@e.siad.eu
GPS: N 25 24.47 - E 55 27.12

SPAIN
SIAD Macchine Impianti S.p.A. Sucursal de España
Pl. El Cascajal, Calle Urogallos 1-3
ES-28320 Pinto - MADRID
Tel. +34 673 789513
www.siadmi.com - siadmi_es@siad.eu
GPS: N 40 25.02 - E 3 71.31

UZBEKISTAN
Representative Office of SIAD Macchine Impianti S.p.A.
in the Republic of Uzbekistan
Amir Temur Ave. 88A, Simurg Business Center
UZ-100084 TASHKENT
Tel. +998 712050212
www.thesiadgroup.com - siadmi_uz@siad.eu
GPS: N 41 20.02 - E 69 17.06

ESA S.p.A.
Via Enrico Fermi, 40
IT-24035 CURNO - BG
Tel. +39 035 6227411
www.esapyronics.com - esa@esacombustion.it
GPS: N 45 41.11 - E 9 37.19

BELGIUM
Belgian Branch of ESA S.p.A.
Zoning Industriel, 48me rue
BE-6940 JUMET
Tel. +32 71 256970
www.esapyronics.com - marketing@pyronics.be
GPS: N 50 27.9 - E 4 27.14

GERMANY
German Branch of ESA S.p.A.
Büttenberger Str. 174 A
DE-58255 Ennepetal
www.esapyronics.com - Klein@esapyronics.com
GPS: N 51 29.94 - E 7 32.76

INDIA
ESA Manufacturing Pvt. Ltd.
Plot No. J-17, MIDC, Bhosari
IN-411 026 PUNE
Tel. +91 9822601452
www.esapyronics.com - esa india@esapyronics.com
GPS: N 18 63.14 - E 73 83.32

Tecno Project Industriale S.r.l.
Via Enrico Fermi, 40
IT-24035 CURNO - BG
Tel. +39 035 4551811
www.tecnoproject.com - info@tecnoproject.com
GPS: N 45 41.11 - E 9 37.19

PENTATEC S.r.l.
Via Carlinga, 43
IT-24035 CURNO - BG
Tel. +39 035 461673
www.pentatecrl.com - commerciale@pentatecrl.com
GPS: N 45 41.06 - E 9 37.17

BRAZIL
Tecno Project Industrial Ltda
Rua País de Gales, 161
Dist. Ind. Bandeirantes
SALTO - SP - CEP 13.326-195 BRAZIL
Tel./Fax +55 11 40215654
www.tecnoproject.com.br - tpi@tecnoproject.com.br
GPS: S 23 11.32 - W 47 19.08

Healthcare

MEDIGAS ITALIA S.r.l.
Via Edison, 6
IT-20057 ASSAGO - MI
Tel. +39 02 4888111
www.medigas.it - info@medigas.it
GPS: N 45 24.17 - E 45 24.17

MAGALDI LIFE S.r.l.
Via Case Rosse, 19/a
IT-84131 SALERNO
Tel. +39 089 383004
www.magaldilife.it - info@magaldilife.it
GPS: N 40 38.42 - E 14 51.52

LPG, Natural Gas and Biomethane

SLOVENIA
ISTRABENZ PLINI d.o.o.
Bertoki, Semlin 8A
SI-6000 KOPER
Tel. +386 5 6634600 - Fax +386 5 6634699
www.istrabenzplini.si - info@istrabenzplini.si
GPS: N 45 33.10 - E 13 45.53
PLINARNA MARIBOR d.o.o.
Plinarniška ulica 9
SI-2000 MARIBOR
Tel. +386 2 2284300 - Fax +386 2 2522272
www.plinarna-maribor.si - info@plinarna-maribor.si
GPS: N 46 55.92 - E 15 65.71
GTG Plin d.o.o.
SI-3000 Celje - Bukovžlak 65b
Tel. +386 (0)3 42 60 760
www.gtg-plin.com - prodaja@gtg-plin.com
GPS: N 46 24.15 - E 15 30.02

BOSNIA AND HERZEGOVINA
ISTRABENZ PLINI d.o.o.
Polkraji bb
BIH-71370 BREZA
Tel. +387 32 789300 - Fax +387 32 789302
www.istrabenzplini.ba - istrabenzplini@istrabenzplini.ba
GPS: N 44 00.17 - E 18 15.1

CROATIA
ISTRABENZ PLINI d.o.o.
Pristanište Podbok 3
HR-51222 BAKAR
Tel. +385 51 455300 - Fax +385 51 761175
www.istrabenzplini.hr - istrabenzplini@istrabenzplini.hr
GPS: N 45 17.37 - E 14 33.54

SERBIA
ISTRABENZ PLINI d.o.o.
Cara dušana 20
RS-22310 ŠIMANOVIĆI
Tel. +381 22 322477
office_beograd@istrabenzplini.ba
GPS: N 44 48.59 - E 20 27.47

DIME Società Agricola S.r.l.
Via San Bernardino, 92
IT-24126 BERGAMO
Tel. +39 035 328111
GPS: N 45 40.57 - E 9 39.44



SIAD Americas LLC
Engineered Equipment
2001 Timberloch Place
Suite 500
The Woodlands, TX 77380

Telephone +1 346 380 1268

siad-americas.com - info@siad-americas.com

© 2024 SIAD Americas LLC
All rights reserved

The information contained herein is offered for use by technically qualified personnel at their discretion and risk without warranty of any kind. We regularly update our data: for updated data please visit our website siad-americas.com

Printed in USA
153.3us20240313

Follow us on LinkedIn™

