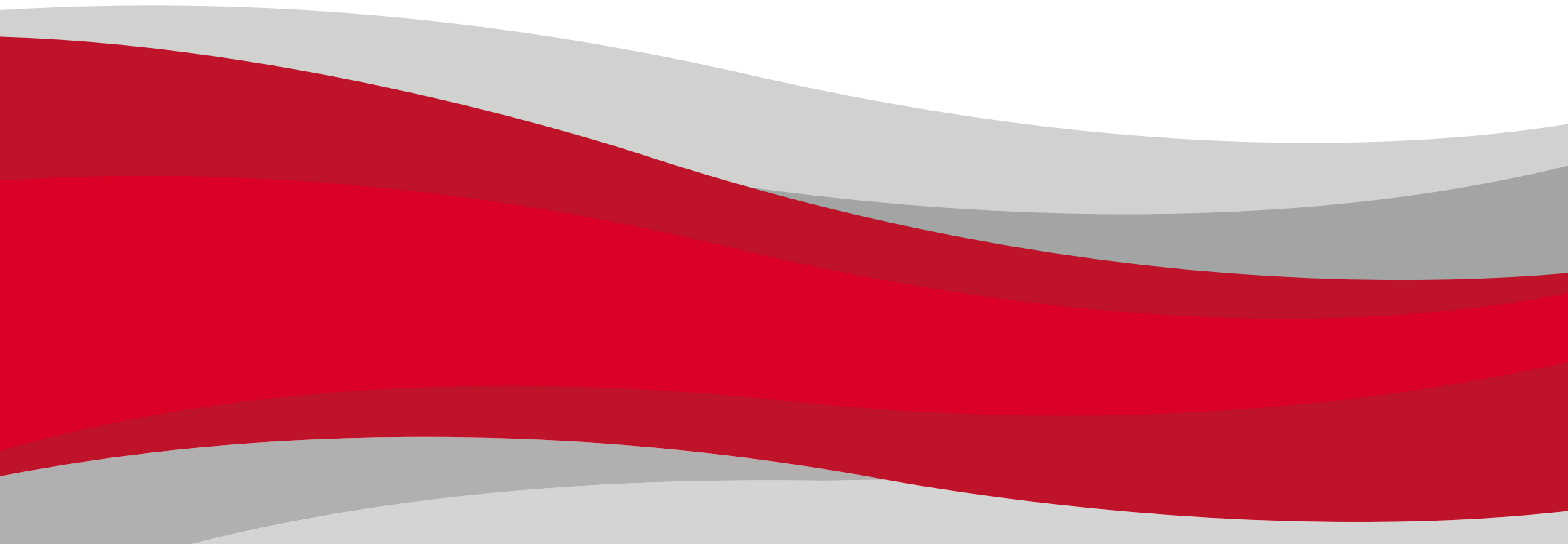


CEP (Custom Engineered Product)



MAJOR PRODUCT_COMPRESSOR

Gardner Denver Products – Industrial Air & Gas Compressors

Oil-Injection Rotary Screw Compressors
(55 ~ 450 Kw)



Variable Displacement Air-end



Single Stage Oil – Injection Rotary Screw
(11~170 Kw)



Two Stage Oil – Injection Rotary Screw Variable Speed Compressor
(55~180 Kw)



MAJOR PRODUCT-NITROGEN GAS GENERATOR



Nitrogen Gas Generator

CN20120 - CN20588



Technical Data - Product Selection

Performance data is based on 7 bar g (100 psi g) air inlet pressure and 20-25°C (66-77°F) Ambient temperature. Consult compAir for performance under other specific conditions.

CompAir Model Ref	Nitrogen flow rate vs purity (Oxygen Content)												
	unit	10ppm	50ppm	100ppm	250ppm	unit	0.10%	3.00%	1.00%	2.00%	3.00%	4.00%	5.00%
CN20120	m ³ /hr	2	3.8	5.5	7.1	8.6	9	14.1	17.8	22	25.8	29	32.2
	clm	1.2	2.2	3.2	4.2	5	5.3	8.3	10.5	12.9	15.2	17.1	19
CN20180	m ³ /hr	3	5.7	8.3	10.7	13	13.4	21.2	26.6	32.8	38.7	43.5	48.3
	clm	1.8	3.3	4.9	6.3	7.6	7.9	12.5	15.7	19.3	22.8	25.6	28.4
CN20240	m ³ /hr	4	7.6	11	14.3	17.3	18	28.3	35.5	43.8	51.6	58	64.4
	clm	2.3	4.5	6.4	8.4	10.2	10.6	16.7	20.9	25.8	30.4	34.1	37.9
CN20300	m ³ /hr	5	9.5	13.8	17.8	21.6	22.4	35.3	44.4	54.7	64.5	72.5	80.4
	clm	2.9	5.6	8.1	10.5	12.7	13.2	20.8	26.1	32.2	38	42.7	47.3
CN20360	m ³ /hr	6	11.3	16.5	21.4	25.9	26.8	42.4	53.3	65.7	77.4	87.1	96.5
	clm	3.5	6.7	9.7	12.6	15.2	15.8	25	31.4	38.7	45.6	51.3	56.8
CN20474	m ³ /hr	7.9	14.4	20.9	27.1	32.8	34	53.7	67.5	83.2	98.1	110.3	122.3
	clm	4.6	8.5	12.3	15.9	19.3	20	31.6	39.7	49	57.7	64.9	72
CN20588	m ³ /hr	9.8	17.4	25.3	32.8	39.7	41.2	65	81.7	100.7	118.7	133.5	148
	clm	5.8	10.2	14.9	19.3	23.4	24.2	38.3	48.1	59.3	69.9	78.6	87.1
Outlet Pressure	m ³ /hr	5.5	6.1	6.1	6.1	6.1	6.1	6	5.9	5.8	5.7	5.7	5.6
	clm	80	88	88	88	88	88	87	86	84	83	83	81

m³ reference standard = 20°C, 1013 millibar(a), 0% relative water vapour pressure.

MAJOR PRODUCT_BLOWER

Gardner Denver Products – Centrifugal Air & Gas Blowers

Multistage Centrifugal Blowers/Exhausters



Up to 1.52 Bar
170 ~ 68,000 M3/Hr

Landfill Gas Packages



500 ~ 27,000 M3/Hr
Pressure : 1 Bar
Vacuum : 380 mm Hg

Flue Gas Desulfurization Forced Oxidation Air Blowers



Up to 1.52 Bar
25,500 ~ 68,000 M3/Hr

Water & Wastewater Treatment Solutions

Up to 69,655 M3/Hr
Pressure : 1.51 Bar
Vacuum : 447 mm Hg



MAJOR PRODUCT-NITROGEN GAS GENERATOR

Nitrogen Gas Generator System



Overview

Installation

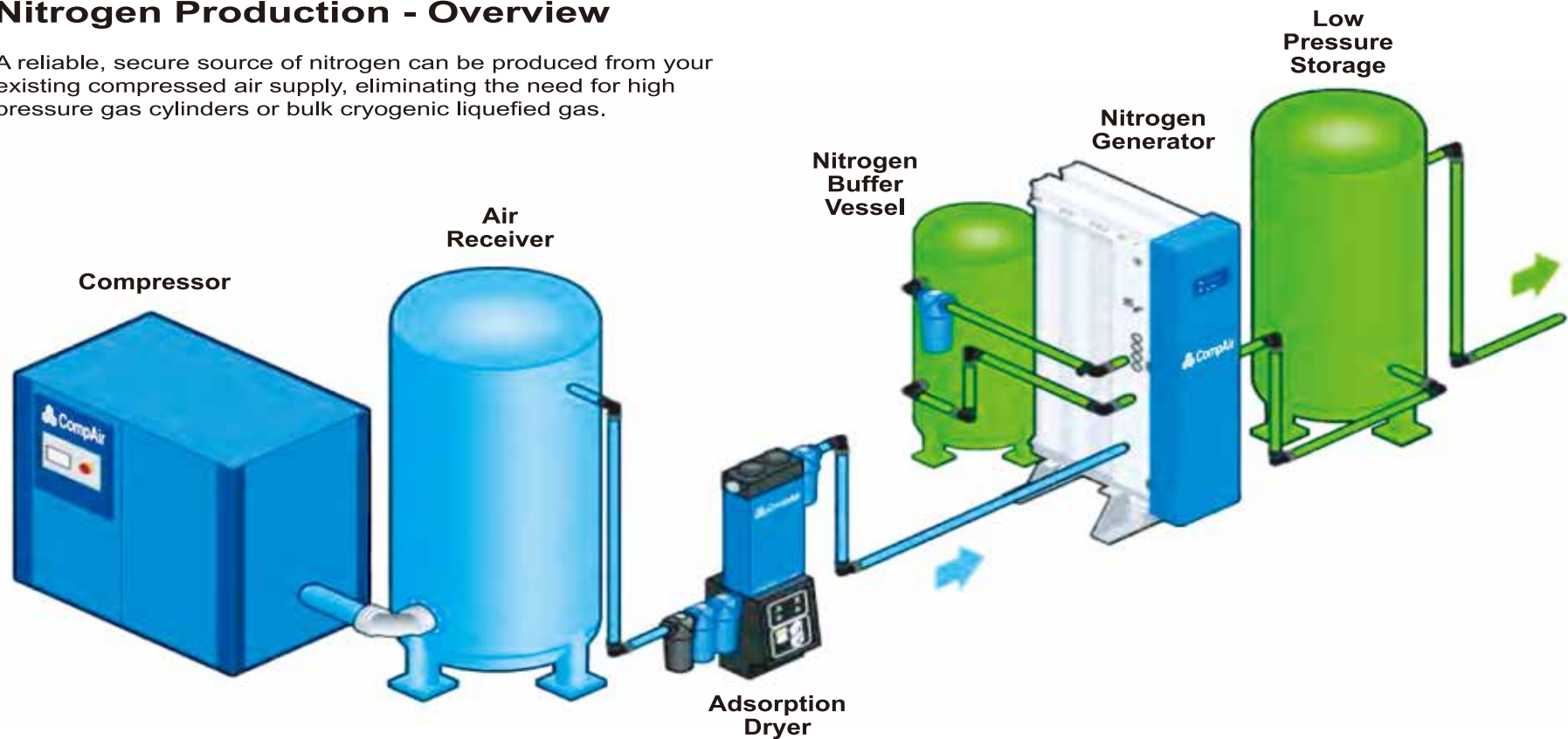
Compressed Air

Nitrogen

MAP

Nitrogen Production - Overview

A reliable, secure source of nitrogen can be produced from your existing compressed air supply, eliminating the need for high pressure gas cylinders or bulk cryogenic liquefied gas.



WHAT CEP CAN DO

- **COMPRESSOR MODIFICATION AS PER CUSTOMER REQUIREMENT**
 - Explosion proof instrumentation & control
 - Weather proof enclosure system for tropicalization and winterization
 - API 614 - Lubrication system
 - API 619 - Screw compressor
 - API 672 - Centrifugal compressor

- **PLC BASED CONTROL (COMPRESSOR LCP, UCP AND MASTER CONTROLLER)**
 - Redundant
 - SiL II and SiL III

- **COMPRESSED AIR SYSTEM**
 - All type of Air Dryers
 - Air Receivers
 - Interconnecting Piping & Control

- **CLOSED LOOP COOLING WATER SYSTEM**
 - Air cooled chiller
 - Cooling water circulation pumps and Surge tank

- **NITROGEN GENERATOR PACKAGE**
 - Air Compressor, Dryer, Receiver, Carbon Filter & Buffer Tank
 - O2 Analyzer

- **DOCUMENTATION AS PER CUSTOMER REQUIREMENT**

- **ENGINEERING : 3D MODELING, SIMULATION AND ANALYSIS**

- **CUSTOMER TRAINING**

WHAT CEP CAN DO

DESIGN & MANUFACTURING

- Compressor, Blower, Vacuum Pump Design & Modification as Required Project Specification
- Structural Skid, Dryer, Filter, Air Cooler, Receiver Tank Design & Fabrication
- 3D Mechanical, Pipe & Tube, Cable & Harness Design
- Interconnecting Piping Design & Fabrication
- Packaging Main Equipments with Downstream Equipments on a Common Base Skid
- Instruments & Control(PLC) Design
- Stress, Deflection and Motion Simulation & Analysis
- Factory Acceptance Test & String Test



WHAT CEP CAN DO

INSTRUMENTS



WHAT CEP CAN DO

INSTRUMENTS



REFERENCE LIST

OFFSHORE BULK AIR PACKAGE FOR MUD SYSTEM

- 2 Oil Injection Rotary Screw Compressors for Low Ambient Temperature Packaging
- Dryer for Low Ambient Temperature Packaging
- Common Base Skid
- Interconnecting Piping
- Instrument & Controls – PLC Based Control
- Location : Offshore Sakhalin, RUSSIA



DESICCANT AIR DRYER & RECEIVER TANK

OIL INJECTION ROTARY SCREW COMPRESSORS FOR LOW AMBIENT TEMPERATURE



REFERENCE LIST

SOUTH YOLETON PROJECT – INSTRUMENT AIR COMPRESSOR PACKAGE

- Oil Free Screw, Air Cooled Compressors very low ambient condition -28 deg.C
- Heatless Desiccant Air Dryer with one pre and one after filter
- Cylinder Wet Air Receiver
- Interconnecting Piping
- Instrument & Controls
- Common Skid
- Location : Turkmenistan



REFERENCE LIST

OSX PROJECT - INSTRUMENT AIR COMPRESSOR PACKAGE

- Client: OSX
- Contractor: CAMERON (TTS Energy)
- Two sets of Oil Free Rotary Screw Air Compressor Packages on Common Skid
- One set of Wet Receiver Tank & Two sets of Desiccant Air Dryer on Common Skid
- Three sets of Dry Receiver Tank on Common Skid
- Operating Pressure: 8 Bar(g)
- Electric Motor: 165 kW, IP 56, Class1/ Division 2 / Gas Group C & D / T3 Classified
- Microprocessor based Dedicated Local Control System for Control of equipment unit as Vendor standard
- PLC based Local Master Control Panel with HMI system for Surveillance and Control for whole package system (IP 66, Stainless steel Enclosure)
- Junction Box: NEMA 4X (IP 66) Stainless steel Enclosure
- Location: Offshore, Brail, 2012 Built



REFERENCE LIST

SENORO PROJECT - INSTRUMENT AIR COMPRESSOR & DRYER PACKAGE & JETTY INSTRUMENT AIR COMPRESSOR PACKAGE

Instrument Air Compressor & Dryer Package

- Two(2) Oil Free Screw Air Cooled Compressor, Model: KNWA2-A50/H
- Two(2) Twin Tower Heatless Desiccant Type Air Dryer, Model: A320TX-CEP
- Operating Pressure: 140 Psig
- Electric Motor: 185kW, IP56
- Allen Bradley MicroLogix 1500 PLC and Mitsubishi touch screen display (HMI)
- Location: Outdoor without shelter, Indonesia



Instrument Air Compressor & Dryer Package
Air Dryer Package

Jetty Instrument Air Compressor Package

- Two(2) Oil Free Screw Air Cooled Compressor, Model: KNWA0-A50/H
- Two(2) Twin Tower Heatless Desiccant Type Air Dryer, Model: A012TX-CEP with Air Receiver
- Operating Pressure: 140 Psig
- Electric Motor: 55kW, IP56
- Allen Bradley MicroLogix 1500 PLC and Mitsubishi touch screen display (HMI)
- Location: Outdoor without shelter, Indonesia



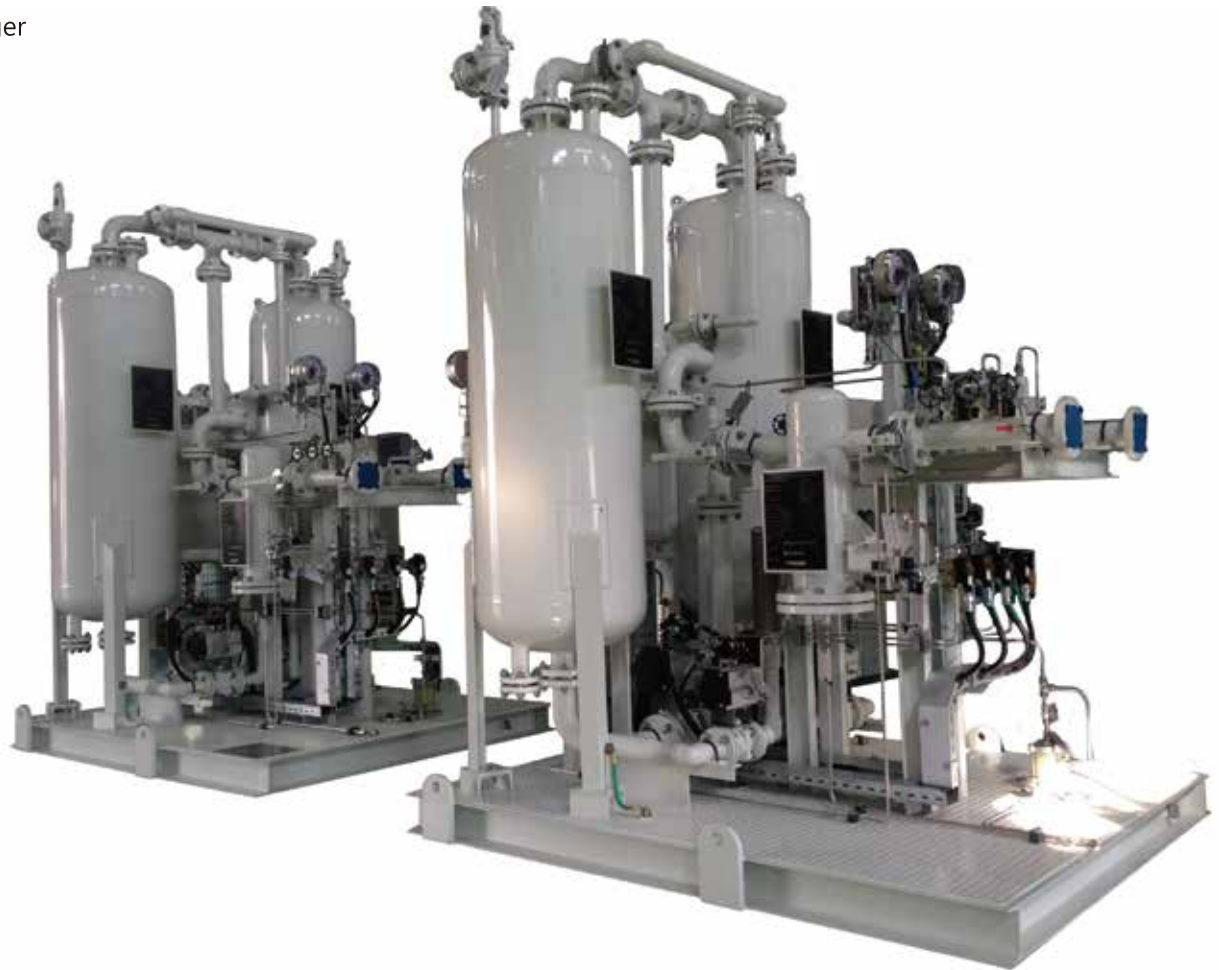
Air Compressor & Duct

Jetty Instrument Air Compressor Package
Air Dryer Package

REFERENCE LIST

RDPP PROJECT - INSTRUMENT AIR & SERVICE AIR COMPRESSED AIR SYSTEM

- Purpose: IA & SA supply for combined cycle with a total capacity of approximately 1131.1MW in Algeria.
- Model: KNW2-A50/H
- Power: 200 Kw @ 2970 RPM
- Flow: 1160 Nm³/hr @ 9.7 bar(g)
- Cooler: Manufacturer's standard air cooled heat exchanger
- PLC based Master Control Panel



REFERENCE LIST

ATTOCK REFINERY LIMITED (ARL) PROJECT - OIL INJECTED SCREW AIR COMPRESSOR

- Client : Attock Refinery Limited (ARL)
- Contractor : HDEC
- One set of Oil Injected Screw Air Compressor
- Operating Pressure : 8 Bar(g)
- Electric Motor : 375kW, IP55,
- Microprocessor based LCP



REFERENCE LIST

E-KANDYM PROJECT - OIL FREE SCREW AIR COMPRESSOR (AIR COOLED TYPE)



- Client: Lukoil Uzbekistan Operating Company, LLC
- Contractor: HEC
- Six(6) sets of Oil Free Screw Compressor, Air Cooled
- Operating Pressure: 10 Bar(g)
- Electric Motor: 90kW, IP55,
- Microprocessor based LCP
- Auto Louver and Enclosure Heater for Low Ambient Temp.

REFERENCE LIST

WEST QURNA (PHASE 2) PROJECT – IA COMPRESSOR PACKAGE

- Four sets of Oil Free Rotary Screw Air Compressor Packages.
- Two sets of Air dryer Packages & Two sets of wet air receiver tank
- Operating Pressure: 9 Bar(g)
- Electric Motor: 90kW, IP55
- Microprocessor Based Dedicated Local Control System as Vendor Standard Controller
- Location: Outdoor, Iraq, 2014 Built



REFERENCE LIST

NOV, L6180 PROJECT - AIR COMPRESSOR PACKAGE

- Contractor: NOV
- Two sets of Oil Free Rotary Screw Air Compressor Packages on Common Skid
- One set of Wet Receiver Tank & Three sets of Dry Receiver Tank
- Two sets of Desiccant Air Dryer on Common Skid
- One set of Pressure Reduction Station
- Operating Pressure: 8 Bar(g)
- Electric Motor: 185 kW, IP 55, Ex 'nA'
- PLC based Local Control Panel with HMI system (IP 54, Stainless steel Enclosure)
- Location: Drill Ship



REFERENCE LIST

JANGKRIK COMPLEX PROJECT – HULL AIR COMPRESSOR PACKAGE

- One set of Oil Free Rotary Screw (Air cooled) Air Compressor on Common Skid
- Two sets of Desiccant Air Dryer on Common Skid
- Interconnecting Piping between Equipment
- Operating Pressure: 9 Bar(g)
- Electric Motor: 73kW, IP56
- PLC Based Common Local Control Panel with HMI system (IP56, Stainless Steel Enclosure)
- Contractor: HHI



REFERENCE LIST

**GINA KROG TOPSIDE EPCH PROJECT
CENTRIFUGAL AIR COMPRESSOR (WATER COOLED TYPE),
NORSOK COMPLIANT FOR OFFSHORE**



- Applied Code : NORSOK, CE Marking in accordance with EU Directives(MD- 2006/42/EC, PED-97/23/EC)
- Applied Coating System : TSA Coating on Steel Structure & Compressor Casing
- Air Cooler Type : Water Cooled 316L Stainless Steel Fin Type
- Piping System : 316 Stainless Steel for Air, Water and Oil System
- Construction Feature : API 672 4th Edition(Packaged, Integrally Geared Centrifugal Air Compressors for Petroleum, Chemical, and Gas Industry Services), EN 13445 (Unfired Pressure Vessels)
- Oil System : API 614, 5th Edition, Chapter 3(Lubrication, Shaft-sealing and Oil-control Systems and Auxiliaries)
- Electric Motor : 400 Kw , IP56 , II 2 G Ex de IIC T4GB
- Junction Box : IP 66, Ex II 2 G Ex ia IIC T5 Gb
- Control Panel : RIO Cabinet with Class 1 Control System, Fiber Optic wired to Platform SAS(Safety and Automation System), Ex II 3 G Ex d e mb Na [ia] IIC T3,

- Size (L x W x H) : 5450 x 2700 x 3890 (mm)
- Operating Discharge Pressure : 11 barg
- Rated Flow(M3/Hr) : 2878 Sm3/h
- Sound Level(dBA) : 75dBA
- Installation Area : Safety Area
- Client : Statoil(Norway)
- Contractor : DSME(Korea)
- Year Built : 2014

REFERENCE LIST

INSTRUMENT & UTILITY AIR COMPRESSOR & COOLER PACKAGES FOR OFFSHORE

- Two sets of Reciprocating Air Compressor Packages on one Common Skid
- Air Cooled Water Cooler Package (Closed Cooling System) : max. 52.4 'C inlet/ 40 'C outlet water temperature, 104,000 kcal/h Cooling capacity
- Compressor Operating Pressure: 13 Barg
- Electric Motor: 150 kW, Ex 'nA', IP 55, Class1/ Division 2/ Gas Group C & D/ T3 Classified
- PLC Based Local Control Panel: ATEX Certified (Ex II 2G Ex 'd' IIB), IP 66 Epoxy coated copper free AL-alloy Enclosure
- Junction Box: ATEX Certified (Ex II 1G Ex 'ia' IIC, T6), IP 66
- Interconnecting Piping & Instrumentation
- Location: Offshore, India



MAJOR PRODUCT_COMPRESSOR

SAUDI ARAMCO 3RD PARTY COGENERATION PROJECT

- Six (6) sets of oil free rotary screw air compressor packages.
- Four (4) sets of air cooled trim cooler for high ambient temperature 52 deg.C
- Operating pressure: 8.8 barg
- Electrical motor: 110 kW, IP 55
- Microprocessor based LCP for Sequence Control Panel (SMART AIR)
- Location: Onshore, Saudi



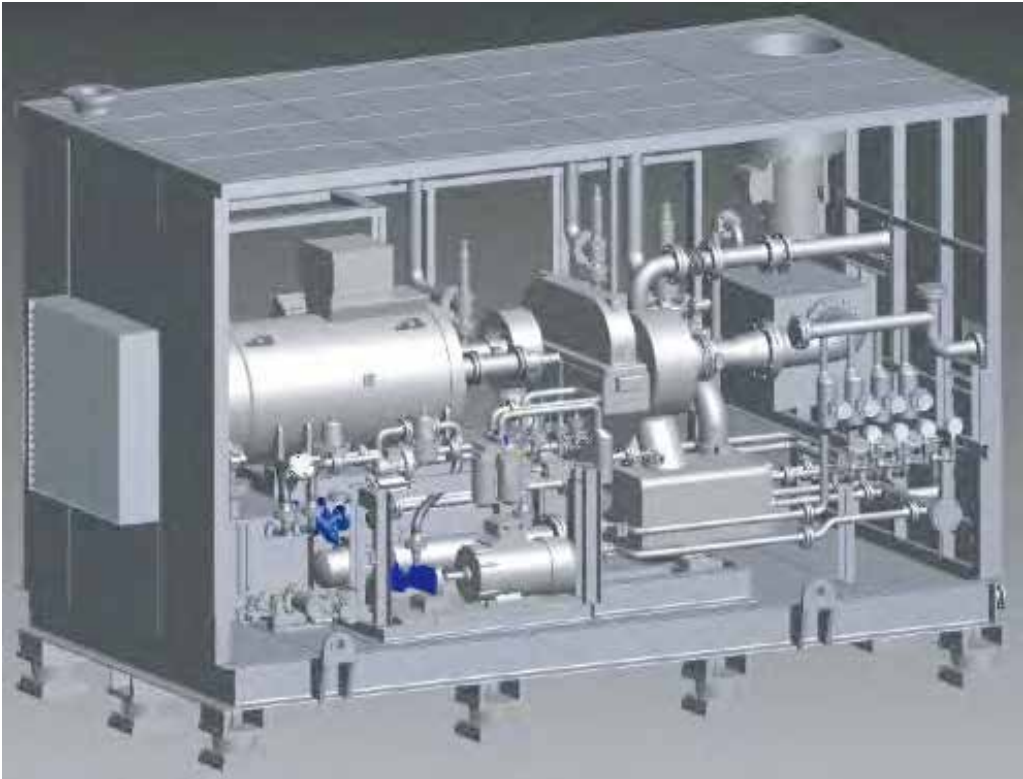
Local Control Panel & Trim Cooler



Trim Cooler

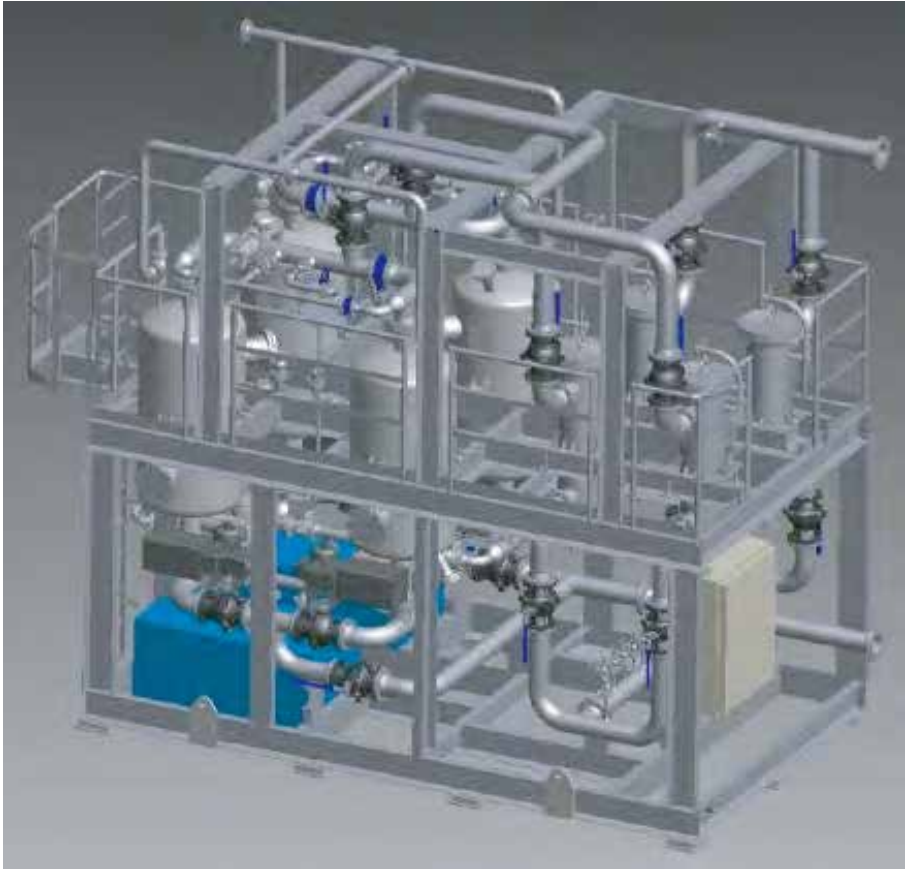
REFERENCE PHOTO & DRAWING

3D MODELING - INVENTOR



Tubo Compressor (TA-3000) - Gina Krog Project

Air Dryer Package - Gina Krog Project



REFERENCE LIST

OFF SHORE

No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Off-Shore											
1	BL200	Oil Injected Screw	160	TTS SENSE	EXXON	SAKHALIN PH. II	Sakhalin	2	Jan. 2010	Jul. 2011	BA
2	N2 Cylinder Rack	N2 Cylinder Rack	-	HHI	TOTAL	MOHO	Nigeria	1	Mar. 2007	Nov. 2007	N2
3	Propane Cylinder Rack	Propane Cylinder Rack	-	HHI	ADMA	Umsarif	UAE	1	Feb. 2008	Dec. 2008	Propane Storage
4	D155 10W	Oil Free Screw	185	NOV	DEP	SHWE	Myanmar	2	Mar. 2010	Dec. 2010	Bulk Air
5	Breathing Air Compressor	Reciprocating	-	NOV	DEP	SHWE	Myanmar	1	Mar. 2010	Aug. 2011	Breathing Air
6	D75 10A	Oil Free Screw	90	HHI	DEP	SHWE	Myanmar	2	Apr. 2010	Aug. 2011	IA
7	D155 10W	Oil Free Screw	300	HHI	DEP	SHWE	Myanmar	2	Apr. 2010	Aug. 2011	IA
8	KNWA2-C50H	Oil Free Screw	300	HHI	DEP	SHWE	Myanmar	2	Apr. 2010	Aug. 2011	IA
9	Filter Station	Filter Station	-	HHI	DEP	SHWE	Myanmar	10	May. 2011	Sep. 2011	IA
10	5209	Reciprocating	11	Larsen & Toubro Limited	ONGC	MHN	India	1	Apr. 2010	Aug. 2011	Starting Air
11	HAB	Reciprocating	15	Larsen & Toubro Limited	ONGC	MHN	India	1	Jun. 2010	Aug. 2011	Breathing Air
12	V150DA	Reciprocating	37	HHI	DEP	SHWE	Myanmar	1	Aug. 2010	Sep. 2011	Starting Air
13	L55	Oil Injected Screw	75	HHI	Ras Gas	Barzan	Qatar	6	Oct. 2011	Mar. 2013	IA & SA
14	L132	Oil Injected Screw	150	TTS Energy	SEADRILL	S Project(West Elara)	Norway	3	Jun. 2011	Dec. 2011	Bulk Air
15	D155 10W	Oil Free Screw	165	TTS Energy	OSX	OSX Platform	Brazil	2	Jan. 2012	Sep. 2012	Bulk Air

REFERENCE LIST

OFF SHORE

No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Off-Shore											
16	D155 10W	Oil Free Screw	165	TTS Energy	OSX	OSX Platform	Brazil	2	Jan. 2012	Nov. 2012	Bulk Air
17	VMHD 750	Oil Free Reciprocating	150	Larsen & Toubro Limited	GSPC	Process CUM Living Quarters Platform	India	2	Sep. 2011	Jul. 2012	IA & UA
18	HAB 40	Reciprocating	15	Larsen & Toubro Limited	GSPC	Process CUM Living Quarters Platform	India	2	Sep. 2011	Jun. 2012	Breathing Air
19	H5209	Reciprocating	11	Larsen & Toubro Limited	GSPC	Process CUM Living Quarters Platform	India	1	Sep. 2011	Jun. 2012	Starting Air
20	761C	CF Blower	125	SHI	SHELL	FLNG	Aus	2	Apr. 2012	Aug. 2013	Ventilation Air
21	TA3000	Oil Free Centrifugal	373	DSME	Statoil	Gina Krog (Dagny) Fixed Platform Topside EPCH	Norway	3	Oct. 2013	Dec. 2013 (FAT)	IA
22	TAC2000	Oil Free Centrifugal	185	DSME	Statoil	Gina Krog (Dagny) Fixed Platform Topside EPCH	Norway	1	Oct. 2013	Dec. 2013 (FAT)	EA
23	D55 10A	Oil Free Screw	73	HHI	Eni Muara Bakau B.V.	Jangkrik Complex	Indonesia	1	Jun. 2014	Mar. 2015	IA & SA
24	L55 10W	Oil Injected Screw	73	HHI	Eni Muara Bakau B.V.	Jangkrik Complex	Indonesia	2	Jun. 2014	Mar. 2015	N2 Feed Air
25	D155 10W	Oil Free Screw	185	NOV	-	DSIC COSL 1500M (semisub)	Norway	2	Jul. 2014	Apr. 2015	Bulk Air
26	D150 08A	Oil Free Screw	185	HHI	Hess Exploration & Production Malaysia B.V.	Bergading CPP & WHP	Malaysia	3	Aug. 2014	Jul. 2015 (Plan)	IA & SA
27	L160	Oil Injected Screw	185	HHI	Petronas Carigali SDN. BHD	Baronia	Malaysia	2	Apr. 2015	Jun. 2016 (Plan)	IA & UA
28	CD26	Oil Free Screw	400	HHI	ADMA	NASR Field Development - Package 2	UAE	4	Jun. 2015	Jul. 2016	IA

REFERENCE LIST

OIL & GAS

No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Oil & Gas_On-Shore											
1	D150 10W	Oil Free Screw	150	GSEC	Salalah Methanol Company, LLC (FZC)	Salalah Methanol	Oman	2	Nov. 2007	Oct. 2008	IA & SA
2	D275 10W (Engine)	Oil Free Screw	400	GSEC	Salalah Methanol Company, LLC (FZC)	Salalah Methanol	Oman	1	Nov. 2007	Oct. 2008	IA & SA
3	L55	Oil Injected Screw	75	CCIC, UAE	Qatar Petroleum	Ras Laffan Export Facility	Qatar	2	Apr. 2009	Dec. 2009	UAE
4	D185 10W	Oil Free Screw	200	GSEC	Laffan Refinery Company	Laffan Refinery	Ras Laffan, Qatar	3	Oct. 2006		IA & SA
5	D200W	Oil Free Screw	250	GSEC	Egyptian Linear Alkyl Benzene Company	LAB	Egypt	2	Nov. 2006		IA & SA
6	D185 10W	Oil Free Screw	185	Daelim	Saudi Aramco	JER #2B	Saudi Arabia	2	Apr. 2010	Mar. 2012	IA & SA
7	D75 10A	Oil Free Screw	90	JGC/ Chiyoda	EXXON	PNG LNG	Papua New Gunia	1	Oct. 2010	Nov. 2011	IA & SA
8	D90 10W	Oil Free Screw	90	HEC	Petronas	PRR II	Malaysia	2	Feb. 2011	Sep. 2012	IA & SA
9	D132 10W	Oil Free Screw	132	HEC	Petronas	PRR II	Malaysia	6	Feb. 2011	Nov. 2011	IA & SA
10	2006	CF Blower	500	SECL	Tasnee	Samco	Saudi Arabia	4	Dec. 2010	Nov.2011	Blower
11	KNEW	Oil Free Screw	250	SECL	Petronas	SOGT	Malaysia	4	Mar. 2011	Feb.2012	IA & SA
12	1607	CF Blower	300	GSEC	BAPCO	BAPCO	Bahrain	3	Dec. 2010	Jan. 2012	Blower
13	2001	CF Blower	110	Daelim	Saudi Aramco	Yanbu Export Refinery	Saudi Arabia	6	May. 2011	Jun.2012	Blower
14	D75 10A	Oil Free Screw	90	Petrofac	TrukmemGas	South Yoloten	Trukmenistan	8	May. 2011	Mar. 2012	IA & SA
15	KNWA2-D50/H	Oil Free Screw	300	HDEC	JTC	Jurong Rock Cavern Phase 1	Singapore	2	Oct. 2011	Jun. 2012	IA & SA

REFERENCE LIST

OIL & GAS

No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Oil & Gas_On-Shore											
16	2405	CF Blower	746	SKEC	SK Energy	H Project	Ulsan	1	Nov. 2011	Aug.2012	Blower
17	D75 10A	Oil Free Screw	90	JGC Gulf International	KJO (Saudi Aramco)	WTF#3	Saudi Arabia	2	Oct. 2011	Oct. 2012	IA & SA
18	L55 13A	Oil Injected Screw	75	JGC Gulf International	Tatweer	New Tank Batteries and Well Manifolds	Bahrain	4	Jan. 2012	Sep. 2012	IA & SA
19	L55 13A	Oil Injected Screw	75	JGC Gulf International	Tatweer	New Tank Batteries and Well Manifolds	Bahrain	2	Mar. 2012	Nov. 2012	N2
20	Sutorbilt 1437Q	PD Blower	223	Daelim	Aramco & Dow	Sadara	Saudi Arabia	2	Apr. 2012	Mar. 2013	Blower
21	74109F	CF Blower	185	HEC	Oman Oil Company Exploration & Production LLC	Musandam	Oman	2	Jul. 2012	Oct. 2013	Blower
22	D75 10A	Oil Free Screw	90	SECL	LUKOIL Mid-East	West Qurna 2	Iraq	10	Aug. 2012	Apr. 2013	IA
23	H5212	Reciprocating	5.5	SECL	LUKOIL Mid-East	West Qurna 2	Iraq	2	Aug. 2012	Apr. 2013	N2
24	H5212	Reciprocating	5.5	SECL	LUKOIL Mid-East	West Qurna 2	Iraq	1	Aug. 2012	Apr. 2013	IA
25	67107	CF Blower	605	Daelim	SABIC	Saudi Elastomers	Saudi	3	Jan. 2013	May.2015	Carbon Black
26	1407	CF Blower	500	Posco E&C	POSCO	SNG	Korea	2	Jan. 2013	Jan.2014	Blower
27	73209	CF Blower	75	Posco E&C	POSCO	SNG	Korea	2	Jan. 2013	Jan.2014	Blower
28	73206	CF Blower	75	Posco E&C	POSCO	SNG	Korea	1	Jan. 2013	Jan.2014	Blower
29	KNEW	Oil Free Screw	185	SECL	PERTAMINA	Senoro	Indonesia	4	Feb. 2013	Apr. 2014	IA & SA
30	D110 10W	Oil Free Screw	110	TOYO Engineering	Petronas	PRR 4	Malaysia	3	Feb. 2013	Mar. 2014	IA & SA

REFERENCE LIST

OIL & GAS

No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Oil & Gas_On-Shore											
31	BL350	Oil Injected Screw	385	HEC	Attock Refinery Limited	ARL Upgradation	Pakistan	1	Aug. 2013	Mar. 2014	IA
32	D250 10W	Oil Free Screw	300	CCJV	Laffan Refinery Company	Laffan Refinery	Ras Laffan, Qatar	3	Oct. 2013	Nov.2014	IA & SA
33	D75 10A	Oil Free Screw	90	HEC	Lukoil Uzbekistan Pperating Company, LLC	Early Kandym	Uzbekistan	6	Nov. 2013	Jun. 2014	IA & SA
34	D110A	Oil Free Screw	150	SKEC	Joint operations Chevron / Kuwait Gulf Oil Company	MGC Revamp	Saudi Arabia Kuwait	4	Dec. 2013	Nov. 2014	IA & SA
35	KNWA2-C50H	Oil Free Screw	250	Daewoo E&C	KOGAS	Akkas Gas Field Development	Iraq	3	Feb. 2014	Dec.2014	IA & SA
36	D75 10A	Oil Free Screw	90	CNPPC	LUKOIL Mid-East	West Qurna 2	Iraq	4	Mar. 2014	Oct. 2014	IA
37	KNWA2-D50/H	Oil Free Screw	330	SECL	Petronas	TGAST	Malaysia	3	Jul. 2014	May. 2015	IA & SA
38	5CDL5	PD Blower	18.5	JGC-Fluor. JV	Chevron Phillips Chemical Company LP	USGC Ethylene Project - 1594	USA	2	July. 2014	Mar. 2015	Vent Collection
39	CD26D250 10A	Oil Free Screw	300	SECL	ENI	ZUBAIR	Iraq	3	Nov. 2014	Oct. 2015	IA & UA
40	CD26D185 10A	Oil Free Screw	200	SECL	ENI	ZUBAIR	Iraq	4	Nov. 2014	Oct. 2015	IA & UA
41	D250 10W	Oil Free Screw	300	SECL	SOCAR (State Oil Company of Azerbaijan Republic)	SOCAR	Azerbaijan	1	Dec. 2014	Oct. 2015	IA & SA
42	SAV350	Oil Injected Screw	300	HDGSK JV	SCOP	Karbala	Iraq	4	Feb. 2015	Feb. 2016	IA & SA
43	CD14-D250 10A	Oil Free Screw	350	HEC	Lukoil Uzbekistan Pperating Company, LLC	Main Kandym	Uzbekistan	4	May. 2015	Mar. 2016	IA & SA

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No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Power and Desalination Plant											
1	D275 09W	Oil Free Screw	350	KOSPO	KOSPO	South Jeju	Jeju, Korea	3	Aug. 2005		IA & SA
2	D150 10W	Oil Free Screw	185	Doosan Heavy Ind.	Shuaibah Water and Electricity Company	Shuaibah IWPP	Saudia Arabia	4	May. 2006		IA & SA
3	D90 10A	Oil Free Screw	110	Doosan Heavy Ind.	Gulf Total Tractebel Power Company	Al Taweelah A10	Abu Dhabi, UAE	2	Mar. 2007		IA & SA
4	D132 10W	Oil Free Screw	132	KNE	Dynatec Madagascar S.A.	Ambatovy Power	Madagascar Ambatovy	4	Jun. 2007		IA & SA
5	D110	Oil Free Screw	132	Doosan Heavy Ind.	Glow Energy Public Company	GLOW 115MW CFB3	Thailand	2	Mar. 2008		IA & SA
6	D90 10W	Oil Free Screw	110	HDEC	Ministry of Electricity & Water	Shuaiba North	Kuwait	6	Apr. 2008		IA & SA
7	D150 10W	Oil Free Screw	185	Toshiba	Middle Delta Electricity Production Company	El Atf Power Station 750MW Combined Cycle Power	Egypt	2	Jun. 2008		IA & SA
8	D150 10A	Oil Free Screw	185	Toshiba	West Delta Electricity Production Company	Sidi Krir Power Station 750MW Combined Cycle Power	Egypt	2	Jun. 2008		IA & SA
9	D90 10A	Oil Free Screw	110	Doosan Heavy Ind.	Qatalum	Qatalum Combined Cycle Power Plant	Qatar	3	May. 2008		IA & SA
10	SVCNL-150L	Reciprocating	150	Doosan Heavy Ind.	Ministry of Electricity & Water	Shuaikh R.O Desalination Plant	Kuwait	3	Jul. 2008		IA & SA
11	D90 10A	Oil Free Screw	110	HDEC	GECOL	Al Sarir	Libya	4	Nov. 2008	Sep. 2008	IA & SA
12	D250	Oil Free Screw	300	Doosan Heavy Ind.	KEPCO SPC Power Corporation	Cebu Coal Fired Power Plant	Philippines	3	Dec. 2008		IA & SA
13	D150	Oil Free Screw	185	KOSPO	KOSPO	Yeongwol combined cycle power Plant	Yeongwol, Korea	3	Jan. 2009		IA & SA
14	D275	Oil Free Screw	330	HDEC	GECOL	Alkhalij	Libya	8	Aug. 2009	Jun. 2010	IA & SA
15	D110	Oil Free Screw	110	HDEC	GECOL	Alkhalij	Libya	1	Aug. 2009	Jun. 2010	EA

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POWER PLANT

No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Power and Desalination Plant											
16	D75 10A	Oil Free Screw	90	HHI	HHI	Al Durr_Air Blowing Skid	Bahrain	2	July. 2010	Nov. 2010	Air Blowing
17	D90 10W	Oil Free Screw	110	HDEC	Ministry of Electricity	Mega Deal Qudus	Iraq	2	Oct. 2011	Mar. 2012	IA & SA
18	D90 10A	Oil Free Screw	90	Doosan Heavy Ind.	Israel Electricity Corp	IEC Add-On	Hagit, Israel	2	Aug. 2011	May. 2012	IA
19	D90 10A	Oil Free Screw	90	Doosan Heavy Ind.	Israel Electricity Corp	IEC Add-On	Ramat, Israel	2	Aug. 2011	Apr. 2012	IA
20	D90 10A	Oil Free Screw	90	Doosan Heavy Ind.	Israel Electricity Corp	IEC Add-On	Eshkol, Israel	2	Aug. 2011	Jun. 2012	IA
21	TA3000	Centrifugal	523	Doosan Heavy Ind.	AES-VCM	Mongdoun II	Vietnam	3	Feb. 2011	Nov. 2012	IA
22	D75 10A	Oil Free Screw	75	HEC	Kenya Elect Generaring Corp	Olkaria I Additional Units Geothermal Power Plant	Kenya	2	May. 2012	Dec. 2012	IA
23	D75 10A	Oil Free Screw	75	HEC	Kenya Elect Generaring Corp	Olkaria IV Geothermal Power Plant	Kenya	2	May. 2012	Dec. 2012	IA
24	TA3000	Centrifugal	300	Doosan Heavy Ind.	KEPCO SPC Power Corporation	Cirebon Power Plant	Indonesia	3	Nov. 2008	Sep. 2009	IA & SA
25	D90 10W	Oil Free Screw	110	Daelim	SEC	Shoaiba II CCPP	Saudi Arabia	4	Apr. 2012	Oct. 2012	IA
26	D75 10W	Oil Free Screw	90	Daelim	SEC	Shoaiba II CCPP	Saudi Arabia	3	Apr. 2012	Oct. 2012	SA
27	D90 10W	Oil Free Screw	110	MHI	MPC	Yulchon II GTCC	Korea	2	Mar. 2012	Dec. 2012	GT-IA
28	D132 10W	Oil Free Screw	150	HDEC	MOE	Al Mussaib	Iraq	3	Oct. 2012	Jan. 2014	IA
29	D200 10W	Oil Free Screw	250	HDEC	MOE	Al Mussaib	Iraq	3	Oct. 2012	Jan. 2014	IA
30	D275	Oil Free Screw	330	HDEC	GECOL	Tripoli West	Libya	8	Dec. 2012	Dec. 2013	IA & SA

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No	Model	Type	Motor Rating (KW)	EPC	End user	Project Title	Location	Q'ty	Contract Year	Delivery Date	Application
Power and Desalination Plant											
31	D110	Oil Free Screw	110	HDEC	GECOL	Tripoli West	Libya	1	Dec. 2012	Dec. 2013	EA
32	D110 07W	Oil Free Screw	132	MHI	RAWEC	Rabigh IWSP Phase 2	Saudi Arabia	5	Jan. 2013	Feb. 2014	IA & SA
33	D75 07W	Oil Free Screw	90	MHI	RAWEC	Rabigh IWSP Phase 2	Saudi Arabia	2	Jan. 2013	Feb. 2014	IA
34	D110 10W	Oil Free Screw	132	STX	Termo Tasajero	Termo Tasajero 2 Coal Fired Power Plant SDA	Chile	3	May. 2013	Dec. 2013	IA & SA
35	KNW2-A50/H	Oil Free Screw	200	Daewoo	Societe Algerienne de Production de I Electricite	RDPP	Ras Djinet , Algeria	2	May. 2013		IA
36	V300DA	Reciprocating	45	HDEC	Azito Energy	Azito Phase III	Cote de Voire	2	Sep. 2013		IA & SA
37	RBS 85	PD Blower	37	Doosan Heavy Ind.	Minera Escondida, Operada por BHP Billiton	Minera Escondida Water Supply	Chile	6	Nov. 2013	Dec. 2014	Air Scour Blowers
38	D90 10W	Oil Free Screw	110	SECL	Power Cogeneration Plant Company	Saudi Aramco Third Party Cogeneration	Saudi Arabia	6	Mar. 2014	Oct. 2014	IA
39	D75 10A (New)	Oil Free Screw	90	Samsung C&T	Sonelgaz SPE	Algeria Mega Deal (Mostaghanem Site)	Algeria	4	Jul. 2014	Feb. 2015	PA & SA
40	D75 10A (New)	Oil Free Screw	90	Samsung C&T	Sonelgaz SPE	Algeria Mega Deal (Naama Site)	Algeria	4	Jul. 2014	Feb. 2015	PA & SA
41	RBS ES 35	PD Blower	11	Posco E&C	Marafiq	SWTP	Saudi Arabia	3	Jul. 2014	Oct. 2014	Blower
42	RBS ES 46	PD Blower	22	Posco E&C	Marafiq	SWTP	Saudi Arabia	3	Jul. 2014	Oct. 2014	Blower
43	RBS ES 46	PD Blower	30	Posco E&C	Marafiq	SWTP	Saudi Arabia	3	Jul. 2014	Oct. 2014	Blower
44	L132 10A	Oil injected Screw	160	HDEC	Sarulla	Sarulla Geothermal Power Plant	Indonesia	2	Dec. 2014	May. 2015	IA & SA



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