



Company profile



To whom it concerns,

Dear Sir/Madam,

We are pleased to introduce our company to you by means of attached summary of information.

Airpack Nederland B.V. is a Dutch based company active all over the world, especially in Europe, the Far- and Middle East. We are established in 1978 and have manufactured more than 5.000 packages, which are operating in the field.

Our core business is the design, engineering and manufacturing of custom made:

- Air and gas compressor packages
- Air and gas dryer packages
- PSA and membrane type nitrogen generators

Our packages are designed completely according to our clients' specifications and requirements. They are completely interconnected, cabled and programmed and ready upon arrival at site with minimal start-up time.

Our full range of in-house expertise allows us to engineer and manufacture our package with a unique level of customization to suit the clients' expectation.

We also support our products with a wide range of after sales services such as start-up and commissioning, troubleshooting, spare parts and overhauling services.

We are specialized in supplying our packages for the most challenging environments such as arctic and desert location.

If you require any further information about our capabilities, experiences and facilities please do not hesitate to contact us.

Yours faithfully,
AIRPACK NEDERLAND B.V.

J.P. Warnar
President

Table of contents

1.	Scope of supply	4
1.1.	Air and gas compressor packages	4
1.1.1.	Lubricated piston compressor.....	5
1.1.2.	Non lubricated piston compressor	6
1.1.3.	Oil injected screw compressor.....	7
1.1.4.	Oil free screw compressor	8
1.1.5.	Booster compressors.....	9
1.1.6.	Centrifugal compressor.....	9
1.2.	Air and gas dryer packages	10
1.2.1.	Heatless regenerated dryer	10
1.2.2.	Heat regenerated dryer	11
1.2.3.	Refrigerated air dryer	11
1.2.4.	Membrane dryers	12
1.3.	Nitrogen generators.....	13
1.3.1.	Membrane nitrogen generator	13
1.3.2.	PSA nitrogen generator	14
1.3.3.	Nitrogen selection chart	14
1.4.	Combined packages	15
2.	Certificates and applicable standards	16
3.	Sub-suppliers & contractors	18
3.1.	Sub-suppliers	18
3.2.	Subcontractors	23
4.	Quality and assurance	24
5.	Site situation and transport facilities	25
5.1.	Seaworthy packing.....	26
6.	Organisation chart of Airpack Nederland B.V	27

1. Scope of supply

Airpack Netherlands is a Dutch company supplying custom made packages with different types of air and gas compressor packages, dryer packages and nitrogen generators to the oil and gas as well as petrochemical industry. As an independent manufacturer/packager we are able to supply our packages completely according to the customers' specifications and fit to the set requirements and site application conditions. As such, we are not a standard manufacturer nor do we supply standardized equipment.

Our packages are suitable for the most extreme conditions, such as:

- Arctic environments to -50°C
- Desert environments to +60°C
- Elevated, earthquake and tropical sites
- Offshore applications
- Zone 1, 2 explosion proof (ATEX)
- Mobile applications (truck mounted, rig safe, self-supporting)

1.1. Air and gas compressor packages

An air and gas compressor package consist of a completely skid mounted oil lubricated or oil-free compressor(s) of different types as stated in below tables. We can supply piston compressors (oil-free or oil-lubricated), screw compressors (oil-free or oil-lubricated) and centrifugal compressors (oil-free). The compressor(s) on the package can be driven via a direct coupling, gearbox or V-belt by an electric motor, diesel engine or steam turbine.

Accessories like oil- and aircoolers (forced by cooled air or water), oil- and waterpumps, oil- and air filters in duplex or single configuration in all possible constructions, pressure vessels, separators, pulsation dampers, control panels, PLC's, instruments, valves etc. can be applied in all materials, types and makes available on the market.

The available compressor types along with the details are mentioned in the below tables.

1.1.1. Lubricated piston compressor

Model	Capacity [m ³ /hr]	Pressure [Bar(g)]	Number of Stages	Maximum compressor speed [rpm]	Cylinder Arrangement
LB-140	140	8	2	1500	V-type
LB-230	234	8	2	1500	V-type
LB-300	296	8	2	1500	V-type
LB-400	396	8	2	1500	V-type
LB-465	468	8	2	1500	V-type
LB-600	594	8	2	1500	V-type
MB-180	184	10	2	1000	V-type
MB-230	222	10	2	1500	V-type
MB-300	294	10	2	1000	V-type
MB-375	368	10	2	1000	V-type
MB-450	442	10	2	1000	V-type
MB-600	603	10	2	1500	V-type
HB-140	136	15	2	1000	V-type
HB-230	204	15	2	1500	V-type
HB-300	271	15	2	1000	V-type
HB-400	406	15	2	1500	V-type

Special lubricated piston compressors can be offered upon request.

1.1.2. Oil-free piston compressor

1.1.2.1 Vertical and V-type arrangement

Model	Capacity [Nm ³ /hr]	Pressure [Bar(g)]	Number of Stages	Maximum compressor speed [rpm]	Cylinder Arrangement
AL-20	20	8-15	2	750	vertical
AL-65	65	8-15	2	750	vertical
AL-115	115	8-15	2	750	vertical
AL-135	135	8-15	2	750	vertical
AL-175	175	8-15	2	750	vertical
AL-235	235	8-15	2	750	vertical
AL-270	270	8-15	2	750	vertical
AL-320	320	8-15	2	750	vertical
AP-115	135	8-15	2	1000/1500	V-type
AP-130	235	8-15	2	1000/1500	V-type
AP-195	295	8-15	2	1000/1500	V-type
AP-390	390	8-15	2	1000/1500	V-type
AP-515	515	8-15	2	1000/1500	V-type

1.1.2.2 Horizontal arrangement

Model	Capacity [Nm ³ /hr]	Pressure [Bar(g)]	Number of Stages	Maximum compressor speed [rpm]	Cylinder Arrangement
HA-550-LT	550	8-15	2	750	horizontal
HA-800-LT	800	8-15	2	750	horizontal
HA-1060-LT	1060	8-15	2	750	horizontal
HA-1450-LT	1450	8-13	2	750	horizontal
HA-1865-LT	1865	8-10	2	750	horizontal
HA-2100-LT	2100	8-10	2	750	horizontal
HA-2700-LT	2700	8-10	2	750	horizontal
HA-5400-LT	5400	8-10	2	750	horizontal
HA-350-LT-3	350	18	3	750	horizontal
HA-575-LT-3	575	18	3	750	horizontal
HA-1550-LT-3	1550	18	3	750	horizontal
HA-1800-LT-3	1800	18	3	750	horizontal

Special oil-free piston compressors can be offered upon request.

1.1.3. Oil injected screw compressor

Model	Capacity [Nm ³ /hr] at working pressure [Bar(g)]			Cooling	Sound level [dB(A)]
	8	10	13		
COMP-6	33	29	22	Air	70
COMP-8	50	43	35	Air	72
COMP-10	71	64	55	Air	72
COMP-15	81	87	75	Air	74
COMP-20	144	124	102	Air	76
COMP-25	168	147	123	Air	76
COMP-30	201	171	147	Air	76
COMP-40	303	258	222	Air	76
COMP-50	360	324	267	Air	76
COMP-60	408	366	315	Air	76
COMP-75	546	468	408	Air	76
COMP-100	726	630	552	Air	76
COMP-125	942	822	720	Air	76
COMP-150	1104	978	852	Air	76
COMP-180	1398	1248	1068	Air	76
COMP-220	1674	1506	1302	Air	77
COMP-270	1956	1740	1542	Air	77
COMP-360	2350	1950	-	Air & Water	72
COMP-400	2450	2250	1850	Air & Water	73
COMP-460	2950	2550	2150	Air & Water	74
COMP-520	3250	2850	2450	Air & Water	75
COMP-575	3550	3150	2650	Air & Water	76

Special oil injected screw compressors can be offered upon request.

1.1.4. Oil free screw compressor

Model	Capacity [Nm ³ /hr] at working pressure [Bar(g)]		Number of Stages	Cooling	Sound level [dB(A)]
	7.5	10			
COMP-50-OF	380	320	2	Air & Water	65
COMP-75-OF	475	405	2	Air & Water	65
COMP-100-OF	645	580	2	Air & Water	65
COMP-125-OF	780	695	2	Air & Water	65
COMP-150-OF	1020	840	2	Air & Water	66
COMP-180-OF	1182	1002	2	Air & Water	67
COMP-200-OF	1266	1074	2	Air & Water	67
COMP-220-OF	1512	1236	2	Air & Water	68
COMP-275-OF	1866	1614	2	Air & Water	69
COMP-340-OF	2352	2010	2	Air & Water	70
COMP-400-OF	2596	2304	2	Water	70
COMP-500-OF	3180	2832	2	Water	71
COMP-550-OF	3510	3144	2	Water	72
COMP-600-OF	4206	3504	2	Water	73
COMP-700-OF	4644	4002	2	Water	75
COMP-850-OF	5778	4932	2	Water	76
COMP-1000-OF	6948	5706	2	Water	76

Special oil free screw compressors can be offered upon request.

1.1.5. Booster compressors

Model	Capacity [Nm ³ /hr]	Suction pressure [Bar(a)]	Discharge Pressure [Bar(g)]	Number of Stages	Cylinder Arrangement
RBV-25	25	1 - 10	30 - 350	2 - 4	V-type
RBV-45	45	1 - 10	30 - 350	2 - 4	V-type
RBV-70	70	1 - 10	30 - 350	2 - 4	V-type
RBV-120	120	1 - 10	30 - 350	2 - 4	V-type
RBV-285	285	1 - 10	30 - 350	2 - 4	V-type
RBH-250	250	1 - 50	30 - 400	2 - 4	Horizontal
RBH-500	500	1 - 50	30 - 400	2 - 4	Horizontal
RBH-750	750	1 - 50	30 - 400	2 - 4	Horizontal
RBH-1000	1000	1 - 50	30 - 400	2 - 4	Horizontal
RBH-1250	1250	1 - 50	30 - 400	2 - 4	Horizontal
RBH-1500	1500	1 - 50	30 - 400	2 - 4	Horizontal
RBH-2000	2000	1 - 50	30 - 400	2 - 4	Horizontal
RBH-2500	2500	1 - 50	30 - 400	2 - 4	Horizontal
RBH-3000	3000	1 - 50	30 - 400	2 - 4	Horizontal
RBH-3500	3500	1 - 50	30 - 400	2 - 4	Horizontal
RBH-4500	4500	1 - 50	30 - 400	2 - 4	Horizontal

Special booster compressors can be offered upon request.

1.1.6. Centrifugal compressor

Model	Capacity [Nm ³ /hr]	Pressure [Bar(g)]	Cooling	Number of Stages
CENT-2000	2000	3-10	Water	1-4
CENT-3000	3000	3-10	Water	1-4
CENT-4000	4000	3-10	Water	1-4
CENT-5000	5000	3-10	Water	1-4
CENT-6000	6000	3-10	Water	1-4
CENT-7000	7000	3-10	Water	1-4
CENT-8000	8000	3-10	Water	1-4
CENT-9000	9000	3-10	Water	1-4
CENT-10000	10000	3-10	Water	1-4
CENT-12000	12000	3-10	Water	1-4
CENT-14000	14000	3-10	Water	1-4
CENT-16000	16000	3-10	Water	1-4
CENT-18000	18000	3-10	Water	1-4
CENT-20000	20000	3-10	Water	1-4
CENT-25000	25000	3-10	Water	1-4

Special centrifugal compressor information can be provided upon request.

1.2. Air and gas dryer packages

Our air and gas dryer packages consists of a complete skid mounted dryer feature with one of the several types as stated in below tables. Each dryer will be designed according to its required dew point and the operating capacity, pressure and temperature. Pressure dew points down to $-80\text{ }^{\circ}\text{C}$ can be obtained for regenerated dryers. Refrigerated dryer can achieve pressure dew points down to $3\text{ }^{\circ}\text{C}$.

Along with the dryer itself, all types of filters in single or duplex configuration, control panels, PLC's, instruments, valves etc. can be applied in all materials, types and makes available in the market.

A complete air or gas dryer can along with its dedicated air or gas compressor be packaged together on a common skid.

The available dryer types along with the details are mentioned in the below tables.

1.2.1. Heatless regenerated dryer

Pressure dew points down to $-80\text{ }^{\circ}\text{C}$.

Model	Capacity * [Nm ³ /hr]	Length mm	Width mm	Height mm	Weight kg	Connection inch
SFN – 25	25	690	300	1020	60	1/2
SFN – 70	70	690	300	1020	135	3/4
SFN – 150	150	940	610	2040	200	1
SFN – 250	250	1085	700	2250	350	1 1/2
SFN – 400	400	1200	700	2350	450	1 1/2
SFN – 600	600	1335	840	2700	710	2
SFN – 900	900	1720	950	3000	1250	3
SFN – 1200	1200	2000	1100	3050	1500	3
SFN – 1500	1500	2275	1220	3100	1800	3
SFN – 2000	2000	2450	1415	3300	2600	4
SFN – 3000	3000	2750	1625	3400	3300	4
SFN - 4000	4000	3300	1950	3700	5000	6

Special heatless regenerated dryers can be offered upon request.

*Based on inlet pressure of 7 bar and inlet temperature of $35\text{ }^{\circ}\text{C}$.

1.2.2. Heat regenerated dryer

Pressure dew points down to $-80\text{ }^{\circ}\text{C}$.

Model	Capacity * [Nm ³ /hr]	Length mm	Width mm	Height mm	Weight kg	Connection inch
HFN – 100	100	690	300	1190	135	½
HFN – 150	150	940	610	1810	360	1
HFN – 250	250	1085	700	2250	550	1½
HFN – 400	400	1350	750	2350	670	1½
HFN – 600	600	1500	840	2700	950	2
HFN – 900	900	1720	950	2800	1530	3
HFN – 1200	1200	2000	1100	2975	1800	3
HFN – 1500	1500	2275	1220	3200	2100	3
HFN – 2000	2000	2450	1415	3450	3000	4
HFN – 3000	3000	2750	1625	3550	3800	4
HFN - 4000	4000	3300	1950	3850	5700	6

Special heat regenerated dryers can be offered upon request.

*Based on inlet pressure of 7 bar and inlet temperature of $35\text{ }^{\circ}\text{C}$.

1.2.3. Refrigerated air dryer

Pressure dew points down to $3\text{ }^{\circ}\text{C}$.

Model	Capacity * [Nm ³ /hr]	Length mm	Width mm	Height mm	Weight kg	Connection inch
ESC-30	30	600	450	550	35	½
ESC-60	60	600	450	550	40	½
ESC-90	90	600	450	550	45	1
ESC-180	180	650	650	800	55	¾
ESC-240	240	900	650	800	70	1
ESC-480	480	900	650	800	95	1½
ESC-720	720	900	800	1200	175	2
ESC-1100	1100	900	800	1200	180	2
ESC-1750	1750	900	800	1200	200	3
ESC-2500	2500	1200	1200	1900	430	3
ESC-4500	4500	1200	1200	1900	650	4

Special refrigerated dryers can be offered upon request.

*Based on inlet pressure of 7 bar, inlet temperature of $35\text{ }^{\circ}\text{C}$ and an ambient temperature of $25\text{ }^{\circ}\text{C}$.

1.2.4. Membrane dryers

Model	Capacity* [Nm ³ /hr]	Suction Pressure [Bar(g)]	Dewpoint	Connection inch
MFN-3	3	4 / 12	+3°C / -40°C	1/2"
MFN-6	6	4 - 12	+3°C / -40°C	1/2"
MFN-10	10	4 - 12	+3°C / -40°C	1/2"
MFN-15	15	4 - 12	+3°C / -40°C	1/2"
MFN-20	20	4 - 12	+3°C / -40°C	1/2"
MFN-25	25	4 - 12	+3°C / -40°C	1/2"
MFN-35	35	4 - 12	+3°C / -40°C	1/2"
MFN-50	50	4 - 12	+3°C / -40°C	3/4"
MFN-65	65	4 - 12	+3°C / -40°C	3/4"
MFN-80	80	4 - 12	+3°C / -40°C	3/4"
MFN-100	100	4 - 12	+3°C / -40°C	1"
MFN-125	125	4 - 12	+3°C / -40°C	1"
MFN-150	150	4 - 12	+3°C / -40°C	1 1/2"
MFN-180	180	4 - 12	+3°C / -40°C	1 1/2"

Special membrane dryers can be offered upon request.

* Based on an inlet pressure of 7 bar and an inlet temperature of 35°C.

1.3. Nitrogen generators

Nitrogen generators separate compressed air in a product stream of nitrogen and a (waste) stream of oxygen enriched air. The waste stream will be vented to the atmosphere, while the nitrogen is directed to the system.

Nitrogen is most often used as a safety gas to avoid dangerous situations, i.e. fire or explosion and often applied in a gas environment. Typical applications are purging, blanketing, inserting or preservation.

Each nitrogen generator will be designed according to its required nitrogen purity and the operating capacity, pressure and temperature. A nitrogen generator can be packaged on a common skid, together with its dryer and compressor. Please see 1.4.

A nitrogen generator package typically consist of a complete skid mounted unit with either membrane separator modules or PSA absorber vessels, all types of filters in single or duplex configuration, heater, control panels, PLC's, instruments, valves etc. All these components can be applied in the different materials, types and makes available in the market.

1.3.1. Membrane nitrogen generator

Model	Nitrogen capacity @ 95% N ₂ purity [Nm ³ /hr]	Nitrogen purity range [%]	Pressure range [Bar(g)]	Temperature range [° C]
NIV-4	4	90 – 99,9	5 – 13	5 – 50
NIV-7	7	90 – 99,9	5 – 13	5 – 50
NIV-11	11	90 – 99,9	5 – 13	5 – 50
NIV-15	15	90 – 99,9	5 – 13	5 – 50
NIV-25	25	90 – 99,9	5 – 13	5 – 50
NIV-37	37	90 – 99,9	5 – 13	5 – 50
NIV-60	60	90 – 99,9	5 – 13	5 – 50
NIV-100	100	90 – 99,9	5 – 13	5 – 50
NIV-150	150	90 – 99,9	5 – 13	5 – 50
NIV-250	250	90 – 99	5 – 13	5 – 50
NIV-500	500	90 – 99	5 – 13	5 – 50
NIV-750	750	90 – 98	5 – 13	5 – 50
NIV-1500	1500	90 – 98	5 – 13	5 – 50
NIV-2000	2000	90 – 98	5 – 13	5 – 50

Special membrane nitrogen generators can be offered upon request.

1.3.2. PSA nitrogen generator

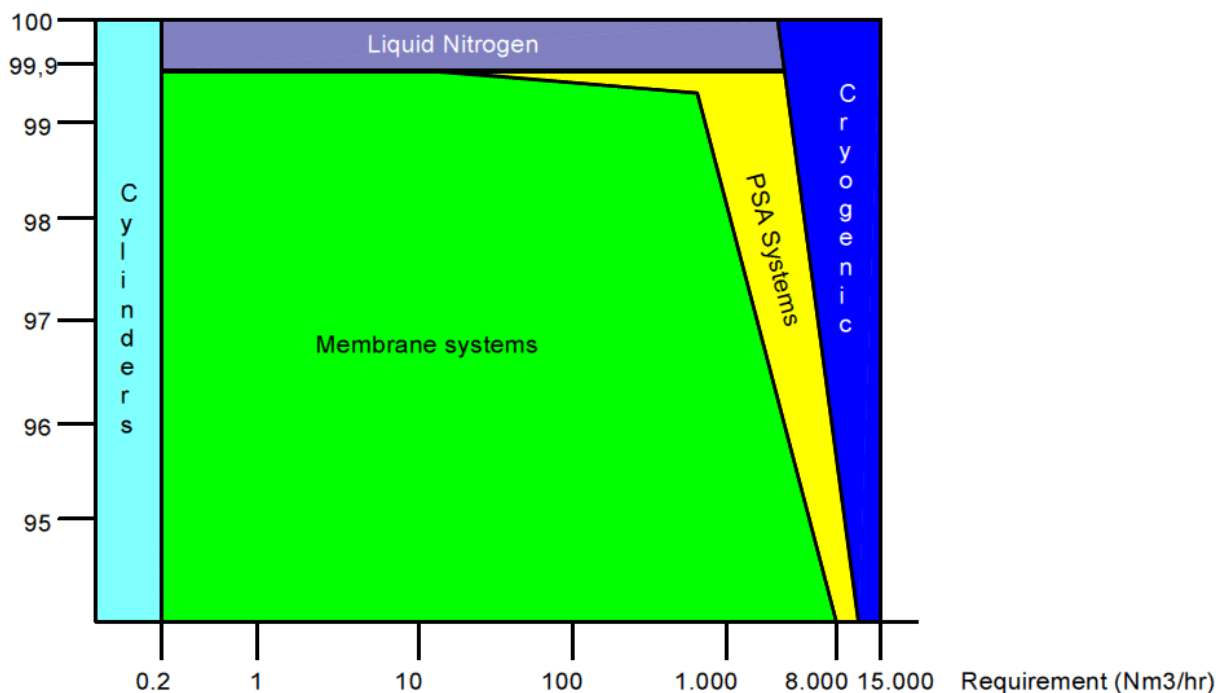
Model	Nitrogen capacity @ 95% N ₂ purity [Nm ³ /hr]	Nitrogen purity range [%]	Pressure range [Bar(g)]	Temperature range [° C]
NIP-20	20	95 – 99,99	5 – 20	5 – 35
NIP-35	35	95 – 99,99	5 – 20	5 – 35
NIP-60	60	95 – 99,99	5 – 20	5 – 35
NIP-100	100	95 – 99,99	5 – 20	5 – 35
NIP-150	150	95 – 99,99	5 – 20	5 – 35
NIP-250	250	95 – 99,99	5 – 20	5 – 35
NIP-500	500	95 – 99,99	5 – 20	5 – 35
NIP-750	750	95 – 99,99	5 – 20	5 – 35
NIP-1500	1500	95 – 99,99	5 – 20	5 – 35
NIP-2000	2000	95 – 99,9	5 – 20	5 – 35
NIP-2500	2500	95 – 99,9	5 – 20	5 – 35
NIP-3000	3000	95 – 99,9	5 – 20	5 – 35
NIP-3500	3500	95 – 99,9	5 – 20	5 – 35
NIP-4000	4000	95 – 99,9	5 – 20	5 – 35
NIP-5000	5000	95 – 99,9	5 – 20	5 – 35
NIP-6000	6000	95 – 99,9	5 – 20	5 – 35

Special PSA nitrogen generators can be offered upon request.

1.3.3. Nitrogen selection chart

The membrane technology is improving day by day. Nowadays even 99.99% nitrogen purity can be achieved. Below chart gives the wide application range where membrane and PSA technology can be used.

(vol.%)

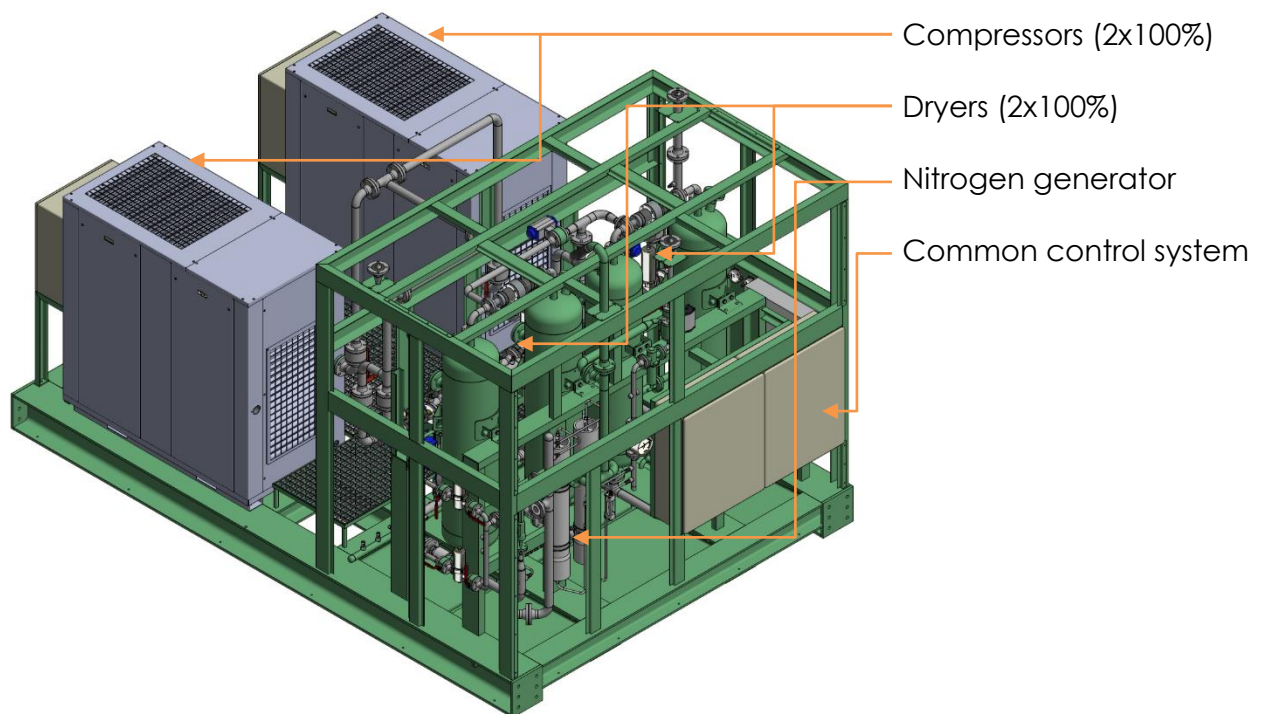


1.4 Combined packages

With all the advantages of being an independent package manufacturer we are able to select the best compressor, dryer and nitrogen generator type. By merging all three packages on a single skid the following advantages can be achieved:

1. Space reduction,
2. Weight reduction,
3. All interconnecting piping, cabling and tubing included,
4. Optimal interface between individual equipment,
5. Less pressure drop,
6. Simple and common control system for all equipment,
7. Complete shop tested package,
8. Less commissioning and start-up work,
9. One shipment and one time custom duty,
10. One responsible supplier for both systems, so one project team, document control system, expediting address and combined testing witness activities.
11. Less spare parts required due to interchangeability in case of combined package,
12. Price reduction.

Based on the advantages mentioned above, we always strongly recommend to combine compressor, dryer and nitrogen generator on a common base frame.



2. Certificates and applicable standards

Airpack can design according to different international high standards as for instance:

- A.S.M.E. section VIII
- ANSI
- TEMA
- IEC
- AD Merkblatter
- Airpack Welding Specification
- British Standard
- Bureau Veritas Classification Rules
- Det Norske Veritas
- Lloyds Register of Shipping
- Service de Mines
- T.U.V.

Airpack also works according to various API standards, such as:

- API 526: Flanged Steel Pressure Relief Valves
- API 582: Welding Guidelines for the Chemical, Oil, and Gas Industries
- API 613: Special Purpose Gear Units for Petroleum, Chemical and Gas Industry Services
- API 614: Lubrication, Shaft-sealing and Oil-control Systems and Auxiliaries
- API 618: Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services
- API 619: Rotary-Type Positive Displacement Compressors for Petroleum, Petrochemical and Natural Gas Industries
- API 661: Air cooled heat exchangers for General Refinery Service
- API 670: Machinery Protection Systems
- API 671: Special Purpose Couplings for Petroleum, Chemical and Gas Industry Services
- API 672: Packaged, Integrally Geared Centrifugal Air Compressors for Petroleum, Chemical, and Gas Industry Services
- API 677: General-purpose Gear Units for Petroleum, Chemical and Gas Industry Services
- API 680: Packaged Reciprocating Plant and Instrument Air Compressors for General Refinery Services
- API 686: Recommended Practice for Machinery Installation and Installation Design

Airpack is also familiar with the special specifications of Oil Company Materials Associations (OCMA), National Fire Protection Association (NFPA) and many other specifications of particular clients:

- ADGAS	UAE
- ADNOC	United Arab Emirates
- Agiba	Egypt
- BP	Great Britain
- Exxon Mobil	U.S.A.
- ENI	Egypt
- Fluor Daniel	Haarlem (NL)
- Foster Wheeler	Great Britain
- GASCO	UAE
- JGC Corporation	Japan
- Jordan Petroleum Co.	Jordan
- Korea Fine Chemical Co.	Korea South
- Kuwait Oil Company	Kuwait
- Mannesmann	Germany
- Mitsui Eng. & Shipbuilding	Japan
- Mobil	Denmark
- N.I.G.C.	Iran
- N.I.O.C.	Iran
- N.N.P.C.	Nigeria
- NPC	Iran
- Occidental	Qatar / U.S.A.
- ONGC	India
- Pakistan State Oil Company	Pakistan
- PIDEK	Iran
- Qatar General Petroleum Co.	Qatar
- Saudi Aramco	Saudi Arabia
- Shell	Worldwide
- Sonatrach	Algeria
- Sucrieries	Egypt
- Technip	France
- Total	Worldwide
- Umm Al Jawaby	Libya
- ZADCO	UAE

3. Sub-suppliers & contractors

3.1. Sub-suppliers

Our main preferred suppliers of material are mentioned underneath.

Type of Material	Make
BARE COMPRESSOR BLOCK (AIR END)	Airpack Atlas Copco Mehrer GHH Rand Boge TMC Sull-air Aerzen Ingersoll-Rand Neuman & Esser
COOLERS	TES TT-Coil GEA NRG-HECO Oversluizen Warmtetransport IWS Monjé
FANS	Almeco
FILTERS - pre and after - air intake - oil	Omega Air Donaldson Ultrafilter Donaldson Sollberg Vokes Air MAN Mahle
ELECTRIC MOTORS	ABB ATB Brook Crompton Leroy Somer Loher Siemens Marelli WEG

GAUGES - pressure/temperature - flow (V.A.)	Wika Ashcroft Krohne Kytola (Alaxa)
SWITCHES - pressure/temperature - vibration	United Electric ITT-Neo-Dyn Ashcroft Beta SOR FFE
TRANSMITTERS - pressure/temperature - dewpoint - flow - vibration - oxygen	ABB Endress & Hauser Rosemount & Emerson Siemens Smar Yokogawa Michell Instruments GE sensing Endress & Hauser Krohne Rosemount & Emerson Siemens Yokogawa SPM Instruments Crowcon GE sensing
CABLE	Incore Cables Batt Cables Kenwill / Rexel TKF
CABLE GLAND	CMP Hawke
MOTOR STARTERS	Siemens Schneider/Telemecanique
VIBRATION DAMPERS	Trelleborg Eriks Econosto
TAPERLOCK & PULLEYS	FPT Vector Imthorn

ROOFPLATES	Nautracom Finish Products
GRATING	Thielco Arco Staco Roosters
HEATERS	Icarus Vulcanic Sinus Jevi Sesco Electromach Heating Group International
FLEXIBLE HOSES & COMPENSATORS	Hydrasun Amni Tech Eriks
VESSELS	Airpack Locati Impianti Tankbouw Rootselaar TMS Delta Engineering Omega Air
MEMBRANES - membrane dryer	Air Liquide Air Products Donaldson
CONSTRUCTION / COMPONENTS	Meeuwsen BV ITM De Kon Hertel
GASKETS	Klinger
INDUSTRIAL DOORS	EMS
PANELS	Index Electro Rittal Bartec Eldon
PLC & DISPLAY	Siemens
RELAIS/TERMINALS	Phoenix contact
POWER SUPPLY	Phoenix contact
VALVES	Pekos Econ Kitz JC Kitamura (KTM) Meson Valves

	<p>Velan Adler Spa Alfa Valvole Engolgas Universal (UNC thread) MRC Transmark</p>
ACTUATORS	<p>Air Max Air Torque El-o-Matic Rotork</p>
CHECK VALVES - compressor discharge - dryer - regeneration	<p>Hoerbiger Ondastop Swagelok</p>
PAINT	<p>Jotun Sigma</p>
SAFETY VALVES	<p>Anderson Greenwood Broady Crosby Dresser Farris Leser Niezgodka (non API) Sarasin</p>
SOLENOID VALVES	<p>ASCO Bifold Bürkert Maxseal</p>
REGULATORS (pressure reducer/back pressure)	<p>Dutch Regulators Maxseal Mankenberg Niezgodka Norgren RHPS Z-tide</p>
STEEL PROFILES & PLATES	<p>Arcelor Mittal ODS Ned. Staalunie ZSB Constructie Konings Staal Montan staal</p>
PIPINGS & FITTINGS	<p>Dylan staal Bergen Stainless</p>

	Van Leeuwen group Arcus
TUBING & CONNECTORS	Gyrolock Parker Swagelok
SEPARATORS	Omega Air IWS Monjé Friulair Locati Impianti Haub Schöllnhammer Solberg
COUPLINGS	FPT Vector Stemin John Crane Imthorn Thomas Rexnord TB Woods Renold

3.2. Subcontractors

Because of our sophisticated network in the Netherlands with our sub suppliers (all ISO 9001 screened) we are able to handle relatively large orders. Sufficient construction area is available in our factory in Zierikzee to handle large and heavy frames. Our engineering department works with sophisticated 3D engineering software to design complicated and large packages.

In case any activities should be sub-contracted, the following companies are preferred.

Construction:

- Beijer
- ITM
- Meeuwsen
- TMS
- VDS
- Tekoma

Shotblasting, painting:

- C.A. Geuze
- Kamps
- ABS Zierikzee

4. Quality and assurance

For details we refer to our quality control and quality assurance books I, II, III and IV.

N.D.T. equipment:

- | | |
|----------------------------|-------------------------------|
| - X-ray unit | by subcontractor (RTD or SGS) |
| - Gamma ray unit | by subcontractor (RTD or SGS) |
| - Dye penetrant | available |
| - Magnetic particle | by subcontractor (RTD or SGS) |
| - Leak detection-available | available |
| - Ultra-sonic equipment | by subcontractor (RTD or SGS) |

Equipment for:

- | | |
|----------------------|-------------------------------|
| - Particle test | available |
| - Hydrostatic test | available |
| - Dye penetrant test | available |
| - Ultra-sonic | by subcontractor (RTD or SGS) |

Equipment for:

- | | |
|----------------|----------------------------|
| - Tensile test | by subcontractor (Element) |
| - Impact test | by subcontractor (Element) |
| - Micro test | by subcontractor (Element) |

Equipment for:

- | | |
|---------------------|-------------------------------|
| - X-ray | by subcontractor (RTD or SGS) |
| - Gamma ray | by subcontractor (RTD or SGS) |
| - Magnetic particle | by subcontractor (RTD or SGS) |

5. Site situation and transport facilities

Airpack is located in the South-West of The Netherlands in Zierikzee. Its location is ideal, at a short distance from the sea harbours of Antwerp, Flushing and Rotterdam. The site has direct access to all kinds of transportation.

Office:

Since 2005 the total office surface is 2000 m².

Workshops:

Since 2005 the total workshop surface is 3700 m².

W23: 792 m²

W24: 960 m²

W25: 660 m²

W19: 1.365 m²

Transportation:

Road near to the international high-way system

Water barge point Zierikzee 500 m.

Distance to seaports (ocean lines)

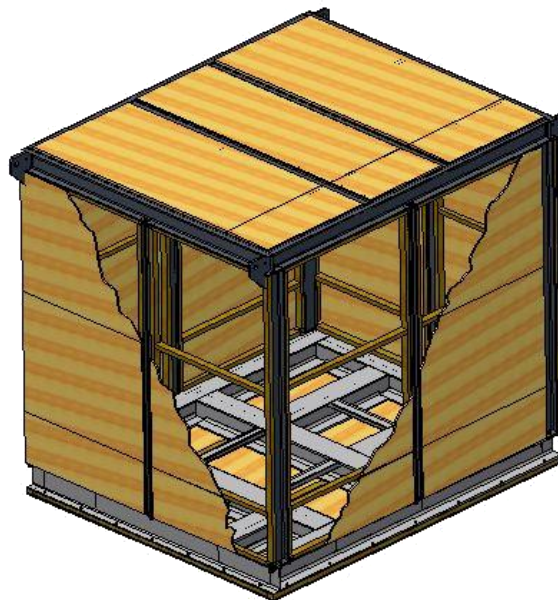
- Antwerp 70 km
- Flushing 35 km
- Rotterdam 70 km

For transportation by vessel our packages can be provided with a seaworthy packing as described on the next page.

5.1. Seaworthy packing

Seaworthy packing generally complies with our drawing TDMW - 103 as per below. It consists of a removable packing frame of steel covered with underlayment 19 mm thick with wooden support of 2 x 3 inch beams.

Each critical item will be protected by a separate plastic cover. Switchbox will be filled with desiccant to avoid oxidation. The closed system will be filled with glycol for anti-oxidation and freezing during transport.



6. Organisation chart of Airpack Nederland B.V.

