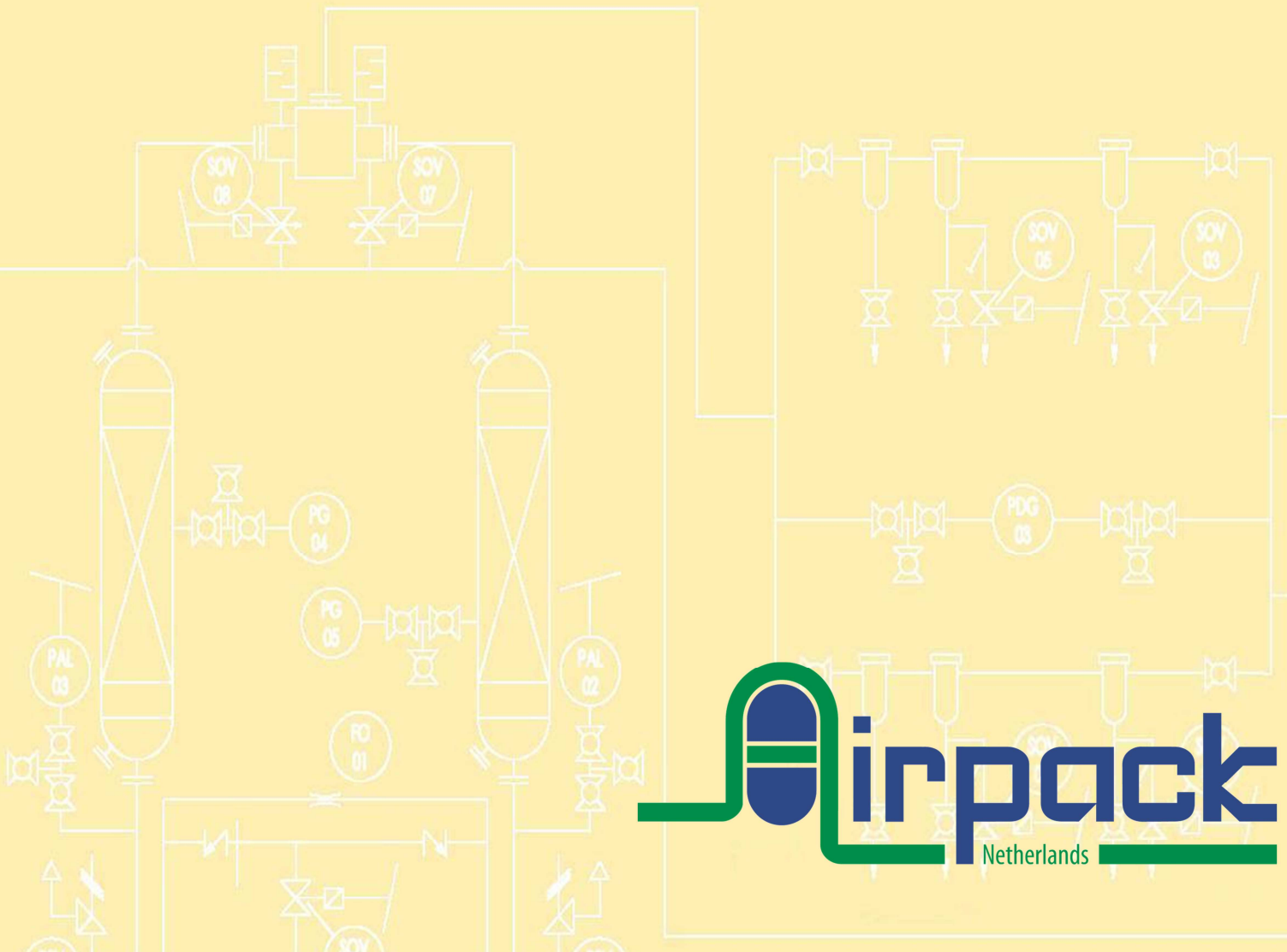


# Company Profile



# Company Profile

**Airpack B.V.**  
**Groenewegje 25**  
**4301 RN Zierikzee**  
**THE NETHERLANDS**  
**Phone: (31) (0) 111 – 415455**  
**Fax: (31) (0) 111 – 413338**  
**E-mail: [airpack@airpack.nl](mailto:airpack@airpack.nl)**  
**Website: <http://www.airpack.nl>**

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. Besides manufacturing, we also have a special worldwide operating maintenance group.

Our activities are the manufacturing of:

- air and gas compressor packages,
- air and gas dryer packages,
- nitrogen generators,

We are not simply a supplier of equipment, which you have to assemble in the field for which skilled and expensive personnel is required. No, we make packages to your requirements, which you only have to hook up on your system. Only one push on the button and our package will work completely automatic. No calibration of instruments or mounting of separate duty / standby compressor, dryer, auto control, annunciators and/or air receivers is required.

We design, manufacture and test all installations completely according to customers specifications and international high standards.

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  
General Manager

## Table of contents

1. Scope of supply .....	5
1.1. Air and gas compressor packages .....	5
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 .....	11
1.3. Nitrogen generators.....	12
1.3.1. Membrane nitrogen generator .....	12
1.3.2. Nitrogen selection chart .....	13
1.4. Combined packages.....	14
2. Certificates and applicable standards .....	15
3. Sub-suppliers & contractors.....	17
3.1. Sub-suppliers .....	17
3.2. Subcontractors .....	22
4. Quality and assurance .....	23
5. Site situation and transport facilities.....	24
5.1. Seaworthy packing.....	25
6. Organisation chart of Airpack B.V .....	26

# 1. Scope of supply

## 1.1. Air and gas compressor packages

The air and gas compressor package consist of a complete skid mounted lubricated or oil free (non lubricated) compressor(s) of different types as stated in below tables.

The compressor(s) on the package will be driven via a coupling, gearbox or V-belt by an electric motor, diesel engine or 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 compressors types along with the details are mentioned in the below tables.

### 1.1.1. Lubricated piston compressor

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

*Special lubricated piston compressors can be offered on request.*

### 1.1.2. Non lubricated piston compressor

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

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

*Special non lubricated piston compressors can be offered on request.*

### 1.1.3. Oil injected screw compressor

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

*Special oil injected screw compressors can be offered on request.*

#### 1.1.4. Oil free screw compressor

Model	Capacity [Nm <sup>3</sup> /hr] at working pressure		Number Of Stages	Cooling	Sound level [dB(A)]
	7,5	10			
<b>COMP-50-OF</b>	380	320	2	Air & Water	65
<b>COMP-75-OF</b>	475	405	2	Air & Water	65
<b>COMP-100-OF</b>	645	580	2	Air & Water	65
<b>COMP-125-OF</b>	780	695	2	Air & Water	65
<b>COMP-150-OF</b>	1020	840	2	Air & Water	66
<b>COMP-180-OF</b>	1182	1002	2	Air & Water	67
<b>COMP-200-OF</b>	1266	1074	2	Air & Water	67
<b>COMP-220-OF</b>	1512	1236	2	Air & Water	68
<b>COMP-275-OF</b>	1866	1614	2	Air & Water	69
<b>COMP-340-OF</b>	2352	2010	2	Air & Water	70
<b>COMP-400-OF</b>	2596	2304	2	Water	70
<b>COMP-500-OF</b>	3180	2832	2	Water	71
<b>COMP-550-OF</b>	3510	3144	2	Water	72
<b>COMP-600-OF</b>	4206	3504	2	Water	73
<b>COMP-700-OF</b>	4644	4002	2	Water	75
<b>COMP-850-OF</b>	5778	4932	2	Water	76
<b>COMP-1000-OF</b>	6948	5706	2	Water	76

*Special oil free screw compressors can be offered on request.*

### 1.1.5. Booster compressors

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

*Special booster compressors can be offered on request.*

### 1.1.6. Centrifugal compressor

Information can be provided on request.

## 1.2. Air and gas dryer packages

The air and gas dryer package consist of a complete skid mounted dryer of several types as stated in below tables. Each dryer will be designed according to its required dewpoint and the operating capacity, pressure and temperature.

Pressure dewpoints down to  $-80\text{ }^{\circ}\text{C}$  can be obtained for regenerated dryers. Refrigerated dryer can achieve pressure dewpoints down to  $3\text{ }^{\circ}\text{C}$ .

Along with the dryer itself can all types of filters in single or duplex configuration, control panels, PLC's, instruments, valves etc. 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 dewpoints down to  $-80\text{ }^{\circ}\text{C}$ .

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

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

Special heatless regenerated dryers can be offered on request.

### 1.2.2. Heat regenerated dryer

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

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

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

Special heat regenerated dryers can be offered on request.

### 1.2.3. Refrigerated air dryer

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

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

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

Special refrigerated dryers can be offered on request.

### 1.2.4. Membrane dryers

Information can be provided on request.

### 1.3. Nitrogen generators

Nitrogen generators separate compressed air in a product stream of nitrogen and a (waste) stream of 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 hazardous situations, i.e. fire or explosion and often applied in a gas environment. Applications are purging, blanketing, inerting or preservation.

The hollow fibre membrane nitrogen generator package can consist of a complete skid mounted unit with membrane separator modules, 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

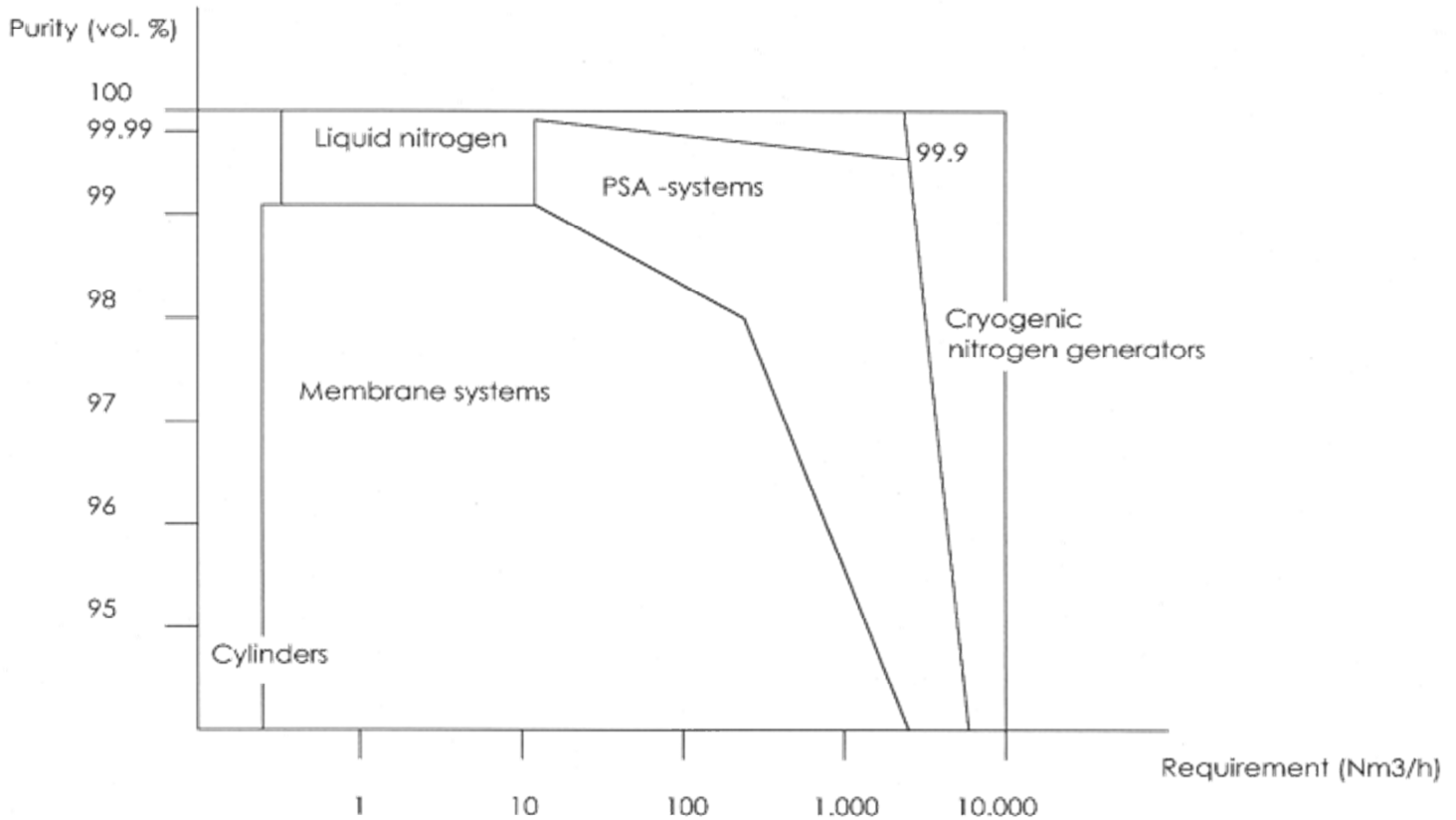
Model	Nitrogen capacity @ 95% N <sub>2</sub> purity [Nm <sup>3</sup> /hr]	Nitrogen purity range [%]	Pressure range [barg]	Temperature range [° C]
<b>NIV-4</b>	4	90 – 99,9	5 – 13	5 – 50
<b>NIV-7</b>	7	90 – 99,9	5 – 13	5 – 50
<b>NIV-11</b>	11	90 – 99,9	5 – 13	5 – 50
<b>NIV-15</b>	15	90 – 99,9	5 – 13	5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

*Special membrane nitrogen generators can be offered on request.*

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 1.5.

### 1.3.2. Nitrogen selection chart

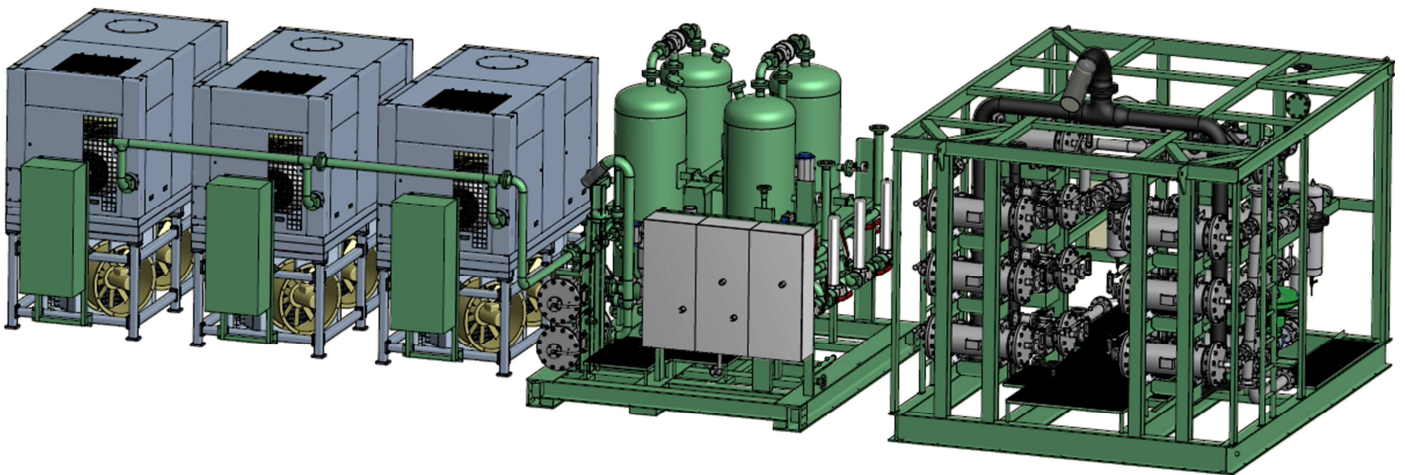
The membrane technology is improving day by day. Nowadays even 99.9% nitrogen purity can be achieved. Below chart gives the wide application range where membrane technology can be used.



## 1.4. Combined packages

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

1. Single point for warranty and overall support,
2. Single point document supply and control,
3. Single shipment and custom clearance,
4. Single commissioning & start-up,
5. Optimized interface within the skid,
6. Weight savings,
7. Space savings.



## 2. Certificates and applicable standards

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

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

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

- API 618
- API 619
- API 680
- API 614
- API 670

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

- |                                 |                      |
|---------------------------------|----------------------|
| - ABB Lummus Crest              | Voorburg (NL)        |
| - ADNOC                         | United Arab Emirates |
| - Agiba                         | Egypt                |
| - Amoco                         | The Hague (NL)       |
| - Badger                        | The Hague (NL)       |
| - BP                            | Great Britain        |
| - D.S.M.                        | Geleen (NL)          |
| - Exxon Mobil                   | U.S.A.               |
| - Fluor Daniel                  | Haarlem (NL)         |
| - Foster Wheeler                | Great Britain        |
| - I.P.S                         | Iran                 |
| - JGC Corporation               | Japan                |
| - Jordan Petroleum Co.          | Jordan               |
| - Korea Fine Chemical Co.       | Korea South          |
| - K.T.I.                        | Zoetermeer (NL)      |
| - Kuwait Oil Company            | Kuwait               |
| - Mann                          | Germany              |
| - Mannesmann                    | Germany              |
| - Medoil                        | Germany              |
| - Mitsui Eng. & Shipbuilding    | Japan                |
| - Mobil                         | Denmark              |
| - NAM                           | Assen (NL)           |
| - 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            |
| - Stork Engineers & Contractors | Schiedam (NL)        |
| - Sucrieries                    | Egypt                |
| - Technip                       | France               |
| - Total                         | Worldwide            |
| - UCN                           | The Netherlands      |
| - Umm Al Jawaby                 | Libya                |

### 3. Sub-suppliers & contractors

#### 3.1. Sub-suppliers

Our main suppliers of material are mentioned underneath.

Type of material	Make
Bare compressor block	Aerzen Neuman & Esser MANN Boge Compair Ingersoll-Rand Ariel C-Air Atlas Copco Mehrer Eco Sull-air Bauer Käser Gardner Denver Creemers Sperry Puska Köhler & Hörter LMF
Cable	Incore cables Batt Cables Kenwill / Rexel TKF
Cable gland	CMP Hawke
Check valve	Hoerbiger Ondastop Swagelok
Chillers	SD Schimonek GEA Hitema Donaldson Gunter MTA
Constructions/ components	ITM Meeuwsen BV Labruejere Verlascon Kryer Metaalwerken

Type of material	Make
Coolers	TES TT-Coil NRG-HECO Oversluizen Hyros Warmtetransport
Couplings	FPT Vector Stemin John Crane PIV Benelux Imthorn Thomas Rexnord TB Woods
Dewpoint analyzer	General Eastern Shaw
Diesel engine	Cummins Caterpillar Deutz Perkins Detroit John Deere Lister Petter
Display	Carlo gavazzi Newport Omega
Electric Motors	Siemens Schorch ABB Loher Dutchi Leroy Somer AEG VEM Rotor Weg F & G
Fans	Almecco
Filters (pre, after)	Ultrafilter/Quality Air Beko Zander Domnick-Hunter Hyros
Filters (air intake)	Donaldson Sollberg
Filters (oil)	MAN Mahle

Type of material	Make
Flexible hose & compensators	Vadeb-Witzeman Hydrasun Beukers & Jeurling Geeve Econosto Eriks
Flow / level gauge	Krohne
Flow / level switches/transmitters	Krohne
Flow gauge	Alaxa Products
Gas engines	Caterpillar Waukesha Dresser
Gaskets	Hertel Walker Hofland-Econosto
Gauges (pressure / temperature)	Wika Afriso Baumer Ashcroft
Grating	Thielco Arco
Heaters	Heatex ASB Toronto Sesco
Industrial doors	EMS
Level switch/transmitters	Magnetrol KSR Keubler
Motor starters	Siemens Telemecanique
Nitrogen membranes	Airliquide UBE Parker aquilo
Oxygen analyser	Crowcon
Paint	Jotun Sigma
Panel	Fondisonzo Hawa Index electro Rittal Bartec Abtech
Piping & Fittings	HO Bergen Dylan staal Lubeck Combori/Borstlap
PLC and PLC Display	Siemens Yokogawa Allen Bradley Hima
Pressure reducer	Mankenberg

<b>Type of material</b>	<b>Make</b>
PSA Systems	Carbotech Italfilo
Pumps	Lowara Travaini
Refrigerated dryer	Sabroe Boge Atlas Beko Zander SD Schimonek
Relais/terminals	Phoenix contact
Roofplates	Nautracom Finish Products
Safety valves	Dresser Niezgodka Farris Laser Sarasin Crosby Tyco Anderson Greenwood
Separators	Ultrafilter Hyros Quality air
Solenoid	ASCO Bürkert
Steel profiles & plates	Konings staal Montan staal Staalunie Sloestaal ZSB Constructie
Switches (pressure / temperature)	Beta United Electric Wika Delta controls Ashcroft SOR
Taperlock & pulleys	FPT Vector Imthorn
Transmitters (pressure / temperature)	Emerson Foxboro Wika Smar ABB Siemens Yokogawa

<b>Type of material</b>	<b>Make</b>
Tubing & connectors	Hylock A-lok Swagelock Hydroflex Thermosan
Valves	Pekos PBV Ceti Alfa Vavole Dafram Kitz Econ Adler Hawa valves Fisher Star line
Vessels	NRG-HERCO Hollestelle Rootselaar SKS Troost
Vessels U-stamped	Crome
Vibration dampers	Trelleborg Polson Eriks Econosto
Vibration switch	FFE SPM Instruments

### 3.2. Subcontractors

Because of our sophisticated network in the Netherlands with our subsuppliers (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 has the CAD system potential to design complicated and large packages.

#### Construction:

- Beijje
- Engiplast
- ITM
- Labrujere Staalbouw
- Meeuwsen
- PEC
- TMS
- VDS

#### Shotblasting, painting:

- Boone
- C.A. Geuze
- Kamps
- Van Jeveren

## 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 |
| - Impact test  | Scheldelab       |
| - Micro test   | Scheldelab       |

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 m<sup>2</sup>.

Workshops:

Since 2005 the total workshop surface is 3700 m<sup>2</sup>.

W23: 792 m<sup>2</sup>

W24: 960 m<sup>2</sup>

W25: 660 m<sup>2</sup>

W19: 1.365 m<sup>2</sup>

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 enclosed. 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 B.V.

