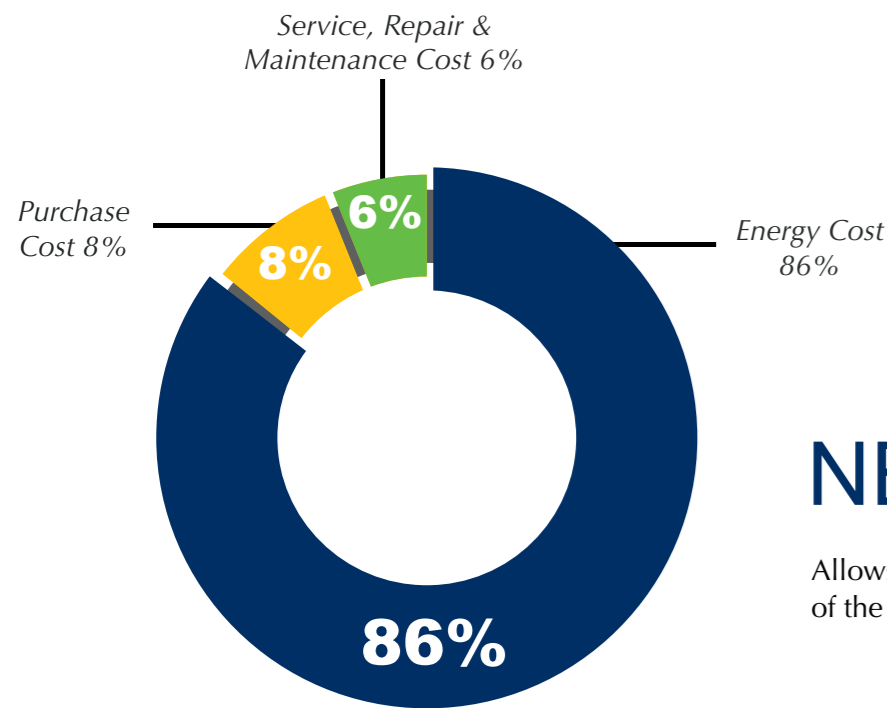


NE VARIABLE SPEED OPTION

An extremely quiet compressor that saves you money daily by increasing and reducing rpm to match the air demand of your plant. With power costing over 2 to 3 times the cost of the compressor in the first year already and making up 86% of the cost of a compressor in its life time, this is where you need to save. This is what we save versus a fixed speed machine:

- Every time a compressor goes off, the idle period uses power with no compressed air output.
- Every time a compressor starts, there is a peak load of 2.5 times the normal current.
- Having a cut in and cut out point means you run at 1 bar above needed pressure using 4 % more power.

COST OF COMPRESSED AIR OVER 5 YEARS



NE Advanced Vario Air

Allows substantial energy savings of at least 25% of the energy cost

OUR COMPRESSED AIR NETWORK CONDUCTOR

The controller was designed to make the operators' interface, with the variable speed drive, transparent. You don't need to be an expert on variable speed drives to operate our compressor.

Communication & Sequencing

The optional communication module allows the NE Series units to talk to each other and other compressors to optimise system efficiency. This isn't just an hour balancing, on/off sequencing scheme, our controller allows the system to truly optimise efficiency because it knows the capabilities of other machines and orchestrates their operation.

Advance Display

The controller has a four line display with menus and tactile buttons for easy navigation. Two lines display operating information such as pressure, temperature, operating hours, etc. while the other two lines display advisory messages, shutdown messages and service contact information.



24 HOURS SERVICE HOTLINE
 UAE +971 4 321 1272 | Oman +968 248 11822

MAINTENANCE IS AS EASY AS EVER

Fast and easy service

These compressors are designed to ensure easy access to maintenance points. All panels on the structure can be easily removed to allow full access to all service points. Also, the limited number of moving parts reduces service costs.

Service network

Over 17 technicians in the UAE and 3 in Oman full time ensure fast and reliable service.

N&A stocks all service and necessary genuine parts to ensure smooth running of your compressor.



COMPLETE SOLUTION

From sizing and design through to layout, installation, commission and service for full compressed air, vacuum, blower and nitrogen generation solutions.

- Compressed air
- Nitrogen
- Vacuum
- Dryers, Drains and Receivers



SCREW COMPRESSORS 2.2 - 90 kW

NE FAMILY



NEW DESIGN HIGH EFFICIENCY SCREW COMPRESSOR

After years of development we have launched a new machine focused on energy saving and a low running:

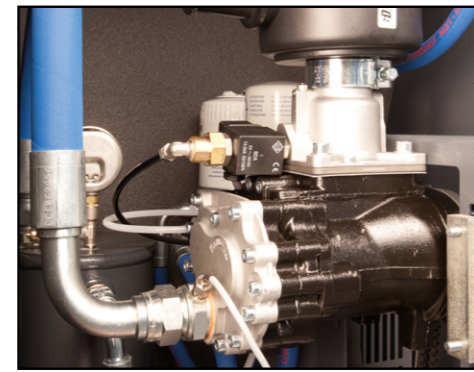
- Quieter than our competitors, as low as 61 dB
- Larger cooling for high ambients of 50 degrees
- Lower parts prices
- Lower service cost
- Simple none PLC control reliable and suitable for trouble free operation in high ambient operation.
- Less components. Oil and oil separator filters versus hoses in a multi block housing.
- New vertical valve design: Intake-air flows through a straight-line path, which guarantees lower load loss.
- Load / unload via a solenoid valve keeping the number of components down to a minimum, to ensure long-lasting durability and low maintenance requirements.
- Standard belts with a single adjustment screw, which guarantees easier control and replacement.

STANDARD EQUIPMENT

- **Star/Delta start** (Premium versions)
- **Air Basic 2 control unit** (Premium versions)
- **Direct start-up**
- **Overload relay**
- **Start/Stop control key with pressure switch** (NE 2- NE 5)
- **Start/Stop push-button. On/Off main switch** (NE 2- NE 5)
- **IP55 electric motors, insulation class: F**
- **Oil level monitoring, inspection window**
- **Transmission belt**
- **Oil thermostat**
- **Safety devices for:**
 - Motor overheating
 - Compressor overheating, automatic stop at 110 °C
- **Indicators of the operating conditions:**
 - Pressure
 - Hour counter
- **Cover with epoxy powder coating**
- **First filling in factory**
 - AEON 3000 lubricator



Control unit



Suction Valve

AIR STATION

The NE Series Package Compressors comes options tank mounted with:

- Compressor
- Dryer
- Tank
- Automatic Condensate Drain
- Kit of Filters



N&A ADVANCED VARIO +

Advanced German designed and built heavy duty dryers build for 53 degrees ambient temp. Main features are:

- German built heat exchanger
- Danfoss compressor
- Siemens electrical components
- Microprocessor not hotgas bypass controlled
- Built in Flensburg Germany



NE 11-18KW AIR FLOWS TO 1.5 M³/MIN & ABOVE



NEW PROFILE GROUND ROTORS

The 11 kW and above have a new profile rotor and while we have all the advantages of the smaller machines we have added advantages

- A housing consisting of a solid palletised base for easy handling.
- Fully removable panels for easy access.
- Panels completely lined internally with closed-cell acoustic material covered with a fully washable, oil-proof and damp-proof film, yet this material is disposable with no environment impact.

NE 30-45KW AIR FLOWS TO 3.43 M³/MIN & ABOVE



NEW BELT TENSIONING AND COOLING

Having all the benefits of the smaller machines we additionally have:

- Easy belt tensioning and replacement which was not available in larger machines until now.
- Heavy duty cooling fans.

EASY ACCESS

The panel access from all sides allows air cartridge, oil cartridge, air/oil separator, belts, oil fill and drain to be reached from a single side.

NE 55-90KW AIR FLOWS TO 15.3 M³/MIN



HIGH EFFICIENCY COMPRESSOR

N & A screw compression elements are manufactured using the latest CNC rotor grinding machinery, with on-line laser technology to give precise tolerances and high efficiency. This helps achieve N&A's goals to provide a good price, high reliability and performance with a low operating costs.

We maximise service durability by eliminating elastomer and thermoplastic pipe and tube in system pressure lines, replacing them with stainless steel tubing and passive zinc coated carbon steel piping. We complete the connection with viton sealed, grooved couplings and self-sealing high pressure compression fittings.

Direct drive / gear drive and IEC 3 motors Improve efficiency and reduces noise and maintenance costs.

NE/NE V 55-90 CONTROLLER

The controller also has the capability to have programmable inputs and outputs, control additional equipment, as well as providing the following features with clear readable instructions.

- Smart energy cost calculation
- Clear text indicator display
- Multiple languages
- Microprocessor controller
- Pressure, temperature & runtime display
- High temperature, high pressure reverse-phase protection function
- Filter and oil change reminder
- Low 24V/DC control voltage
- Intelligent protection in extreme environments



- Safe operation protection
- Multiple pressure/temperature input points
- Integrated sequence control (up to 8 compressors)
- RS-232 series communications for local monitoring
- Optional RS-485 ethernet communications for remote monitoring via Airbus485™ or Modbus RTU

TECHNICAL DATA

NE 2.2-18KW

Compressor Model	Maximum Pressure (barg)	FAD* m ³ /min	Motor (kW)	Starter Options	Controller Options	Noise Level [dB(A)]**	Compressed Air Output BSP	Weight (kg)	Dimensions LxWxH (mm)
NE 02	10	0.24	2	DOL	Pressure Switch	61	1/2"	106	620 x 600 x 840
NE 03	10	0.36	3	DOL	Pressure Switch	61			
NE 04	10	0.53	4	DOL	Pressure Switch	62			
NE 05	10	0.67	5.5	DOL	Pressure Switch	66	3/4"	148	680 x 600 x 1160
NE 07	10	0.95	7.5	Star-Delta	Processor control	67			
NE 11	10	1.5	11	Star-Delta	Processor control	66	3/4"	242	960 x 740 x 1090
NE 15	10	2.0	15	Star-Delta	Processor control	69	3/4"	301	
NE 18	10	2.5	18.5	Star-Delta	Processor control	73	1"	333	

NE 30-45KW

Compressor Model	Maximum Pressure (barg)	FAD* m ³ /min	Motor (kW)	Starter Options	Controller Options	Noise Level [dB(A)]**	Compressed Air Output BSP	Weight (kg)	Dimensions LxWxH (mm)
NE 30	7.5	5.0	30	Star-Delta	Processor control	71	1"	640	1150 x 1150 x 1610
	10	4.19							
	13	3.43							
NE 37	7.5	6.35	37	Star-Delta	Processor control	68	1 -1/4"	784	
	10	5.65							
	13	4.71							
NE 45	7.5	7.01	45	Star-Delta	Processor control	72	1 -1/4"	800	
	10	6.10							
	13	5.20							

NE 55-90KW

Compressor Model	Maximum Pressure (barg)	FAD* m ³ /min	Motor (kW)	Starter Options	Controller Options	Noise Level [dB(A)]**	Compressed Air Output BSP	Weight (kg)	Dimensions LxWxH (mm)
NE 55	7.5	10.7	55	Star-Delta	Processor control	72	2"	1400	2104 x 1300 x 1580
	10.5	9.5							
NE 75	7.5	13.8	75	Star-Delta	Processor control	74	2"	1450	
	10.5	10.6							
NE 90	7.5	15.3	90	Star-Delta	Processor control	75	2"	1500	
	10.5	13.80							

* Air flow rate measured according to standards ISO 1217, ed.4, ANNEX E – 2009 and test code / Pneurop/Cagi PN 2 CPTC2 at the following working pressure: 7 bar versions at 7.5/8/8.5 bar; 9 bar versions at 10 bar; 12 bar versions at 13 bar. ** Sound pressure level measured according to standards ISO 2151 and ISO 3744 at 1 m distance in a free field. WARNING: in particular indoor installation environments, the noise may increase by as much as 6_10 dB(A) due to sound reflections against the walls. The manufacturer may change the above-mentioned technical specifications without prior notice.