EXTREME 5G PETROL DIVING HOOKAH

User Manual

3.0 hp Gasoline Engine
7-Liter Air Tank Capacity
Includes Regulator & 55.8 ft (17m) Quick Disconnect Hose

The Extreme 5G Petrol hookah, manufactured by NARDI COMPRESSORI Srl of Italy and distributed by NUVAIR.com, is part of the NARDI oil-free range of diving hookahs and is designed for medium-duty applications, providing reliable air supply to a diver while maintaining a compact and lightweight design. The rugged Extreme 5G Petrol uses an exterior **7-liter air storage tank**.

The CE mark indicates that the compressor complies with CEE Directives 89/392, 89/336, 87/404, EN 292/2, EN 294, and EN 60204-1.

Notes:

INTRODUCTION

Manufactured in Italy, the NARDI EXTREME 5G PETROL DIVING HOOKAH series of compressors features our renowned oil-free piston compressor pump units, which are celebrated worldwide for their quality, reliability, and quiet operation.

The NARDI EXTREME 5G PETROL DIVING HOOKAH compressor delivers **exceptional performance, pressure,** and **dependability**. Its true oil-free design ensures **guaranteed air quality** and **enhanced safety**.

The Nardi series of surface supply diving hookahs are ideal for both recreational activities and commercial work, such as:

Recreational Diving • Boat Maintenance • Coral Restoration
Lobstering • Fossil Hunting • Diver Training • Pier and Marina Maintenance
Swimming Pool Repairs • Marine Research • Golf Ball Retrieval

The included 55.8-foot-long (17 meters) hose/regulator set is equipped with quick-connect fittings. A second hose/regulator set (SKU AC036-111), along with a T-Coupling (SKU AC036-113) can be purchased separately to supply a second diver. A 55.8-foot (17m) hose extension can also be purchased separately (SKU AC036-112).

The output pressure is manually adjustable. The compressor works without oil and the quality of air delivered conforms to all relevant legislation regarding breathable air.

UNPACKING & ASSEMBLY

Packing List

- Nardi Diving Hookah
- Nardi Hose / Regulator Set (55.8 ft · 17m)
- User Manual

Carefully remove the diving hookah and accessories from the box. Check that all the items are included. Inspect the diving hookah carefully to ensure no damage occurred during shipping. Do not discard the packaging materials until you have inspected and satisfactorily operated the diving hookah. This model Nardi diving hookah requires no assembly.

DANGER

1. This diving hookah should ONLY be operated by individuals with proper training.
2. DO NOT rely exclusively on this hookah for air while diving.
3. ALWAYS have a backup air source when diving.

PRESSURIZED GAS

When using a diving hookah system—also known as a Surface Supplied Breathing Apparatus (SSBA)—you are breathing compressed air. Pressurized air can be hazardous if you have not been properly trained.

SYMBOL DEFINITIONS

This manual uses specific words and symbols to highlight conditions, practices, or techniques that could impact your safety. Be especially mindful of information indicated by the following symbols or terms:

SYMBOL	MEANING	DESCRIPTION
	**DANGER**	Indicates an imminently hazardous situation, which if not avoided, will result in serious personal injury or death.
	**WARNING**	Indicates a potentially hazardous situation, which if not avoided, could result in serious personal injury or death. It may also be used to alert against unsafe practices.
	**CARBON MONOXIDE**	The gasoline motor on this diving hookah produces carbon monoxide (CO). Carbon monoxide is a colorless and odorless gas that, when inhaled, can result in seizures, loss of consciousness, serious injury, or death. When inhaled underwater, carbon monoxide can also result in death by drowning.
	**PRESSURIZED GAS**	When using a diving hookah system—also known as a Surface Supplied Breathing Apparatus (SSBA)—you are breathing compressed air. Pressurized air can be hazardous if you have not been properly trained.

SPECIFICATIONS

Power Source	Unleaded Regular Gasoline
Motor	3 hp (2.2 kW)
Compressor	2 Cylinders (Oil-Free)
Duty Cycle	50% · 40 minutes runtime / 40 minutes rest time Full 1.5-liter fuel tank provides ~2 hours runtime
RPM	2900
Air Intake	5G 60: 9.5 CFM (270 LPM) 5G 70: 13.4 CFM (380 LPM)
Air Output at Surface **0m · 0 feet**	5G 60: 190 L/min (6.7 CFM) 5G 70: 237 L/min (8.4 CFM)
Air Output at Depth **15 meters · 49 feet Seawater**	5G 60: 155 L/min (5.5 CFM) 5G 70: 188 L/min (6.6 CFM)
Tank Size	7 liters (0.25 cubic feet)
Tank Pressure	145 psi (10 bar)
Outlet Pressure	0–145 psi (0–10 bar) Adjustable
Maximum Number of Divers	2
Maximum Recommended Depth	66 feet (20 meters)
Recommended **Working Temperature**	+41°F to +122°F +5°C to +50°C
Unit Dimensions **(L x W x H)**	16.5 x 17.7 x 17.7” 42 x 45 x 45cm
Unit Weight	Extreme 5G 60: 56 lb (25.5 kg) Extreme 5G 70: 59 lb (26.5 kg)
Noise (dB)	85 dB
Warranty	12 months

General Diving Hookah Safety

Diving Poses Risks at Any Depth. This diving hookah should ONLY be operated by individuals with proper training. If you lack suitable training, complete an accredited diving course before using this equipment.

Do Not Rely Exclusively on This Diving Hookah for Air While Diving. While it provides an excellent primary air source, diving hookahs are mechanical devices that can fail unexpectedly due to equipment malfunctions, power interruptions, or air supply disruptions.

Always Dive with a Backup Air Source. A "Bailout Bottle" or "Pony Bottle," with an integrated regulator, is an ideal secondary air supply. Ensure any backup air source is appropriately sized to allow for a controlled ascent to the surface.

Contaminated Air Supply. The breathing air supplied by this diving hookah is only as safe as the air that it takes in. Always monitor air quality where the diving hookah is positioned. Avoid placing it near boat engines, generators, fuel sources, or batteries, as these can contaminate the air.

Carbon Monoxide. The gasoline motor on this diving hookah produces carbon monoxide (CO). Nuvair only sells gasoline-powered hookahs with a 15-foot-long Remote Air Intake (or RAI, Figure 1). The user is responsible for ensuring carbon monoxide does not enter the diving hookah. The diving hookah intake must be located away (upwind) from engine exhaust [OSHA 29 CFR 1910.430 (B)(2)], at least 6 feet above ground and 12 feet away from the exhaust. Always use a carbon monoxide (CO) analyzer on diver air supply and a breathing air filter rated for use on gasoline-powered diving hookahs (AC036-102).

Figure 1. Hookah Remote Air Intake.

Airflow. Proper cooling of the diving hookah depends on adequate airflow. Ensure there is sufficient space around the hookah to allow airflow for motor and compressor cooling. Do not use it in closed environments with a limited circulation of air.

Maintenance Procedures. Before performing any maintenance, make sure the diving hookah is powered off, disconnected from its power source, and fully depressurized. Allow the diving hookah to cool to room temperature before starting any maintenance tasks.

ADDITIONAL SAFETY MEASURES

Transportation. Move the compressor using appropriate lifting techniques to avoid personal injury. To avoid injuries caused by vibration, do not move the compressor while in operation.

Hearing Protection. In case of prolonged close-proximity use, hearing protection is recommended.
Environmental Exposure. The suggested working temperature is +41°F to +122°F (+5°C to +50°C). Do not use the compressor near flames or heat sources. Avoid prolonged exposure of the compressor to direct sunlight. Keep children and animals away from the compressor. Do not use the compressor in dusty environments.

Tampering. Do not modify or tamper with the hookah's safety devices or regulator. If your diving hookah requires maintenance or repair, please contact your supplier for additional information.

OPERATION

Location. Position the diving hookah on a stable and reasonably level surface. The diving hookah does not contain any lubricating fluids, so the surface does not need to be perfectly level. Locating the diving hookah on an excessively sloped surface; however, an uneven surface could allow it to slowly 'creep' due to vibration while running.

Ensure there is sufficient room around the diving hookah to allow a free flow of cooling air to the cooling fan and from the cooling fan.

Be mindful that the diving hookah draws breathing air from underneath the cooling fan cover. The air being drawn into the cooling fan is the air that will be supplied to the diver. Be constantly mindful of the air quality at the cooling fan. Boat motors, generators, fuel supplies and batteries are all potential sources of breathing air contamination.

Hose Connection. Connected the supplied hose/regulator assembly to the breathing air outlet located on the end of the diving hookah filter assembly. The hose connects by simply pushing the male hose connector into the female air coupling. Ensure that the chrome outer ring of the air outlet clicks back into place securely. Ensure that the connection is secure.

Switching the Diving Hookah On. Before starting the gasoline engine, make sure the air hose is not under pressure and the air outlet fitting is open.

- Fill the fuel tank with the regular unleaded gasoline.
- Open the gasoline tap so that fuel enters the engine (Figure 2).
- Turn ON the on-off switch (Figure 2).

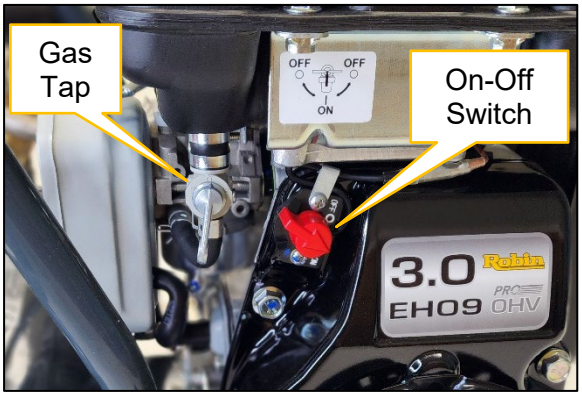


Figure 2. Gas tap and On-Off Switch.

- For a cold engine start, slide motor choke lever to the right (Figure 3).
- Unscrew the black bypass valve next to the pressure unloader valve so the compressor starts without pressure (Figure 4).
- Pull the engine start and allow the motor to run for a few moments.
- Slide the motor choke lever to the left (Figure 3).
- Screw the black bypass valve closed (Figure 4).
- The compressor will now reach its set working pressure.

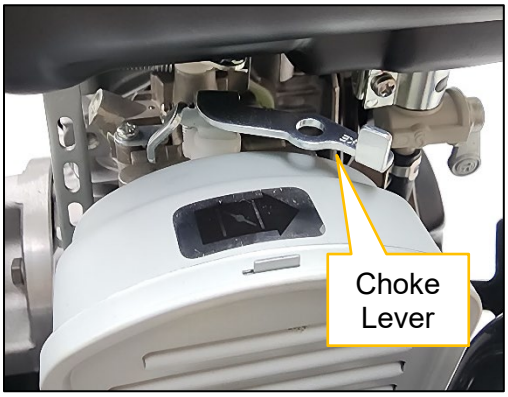


Figure 3. Choke lever.

Outlet Pressure Regulation. The outlet air pressure (air delivered to the diver through the filter) is reduced by a pressure regulator. The pressure regulator is mounted under the pressure gauge (Figure 5). The pressure gauge displays the regulated outlet air pressure. The pressure regulator can be adjusted by pulling the red adjustment knob up until it clicks and then turning the knob until the desired outlet pressure is obtained. Once adjusted, the knob should be pushed back into place until it clicks. The outlet air pressure is factory set to approximately 58 psi (4 bar) and adjustment is not generally necessary. Increasing the outlet air pressure can place excessive strain on the diving air hose, fittings, and second stage breathing regulator/mouthpiece.

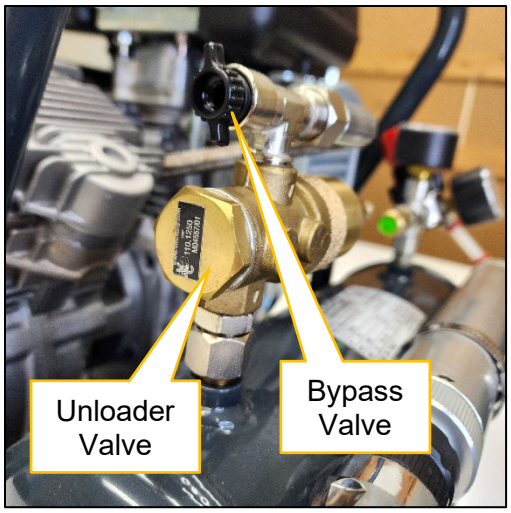


Figure 4. Pressure unloader and bypass valves.

Turning the Diving Hookah Off. To discontinue hookah operation and turn off the motor, follow these steps:

- Check the pressure gauge to ensure that compressor is at its maximum pressure before turning OFF the motor.
- Release the air from the tank by unscrewing the black bypass valve (Figure 4).
- Turn the on-off switch to OFF (Figure 2).

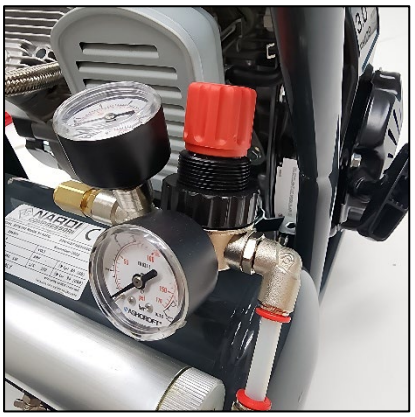


Figure 5. Pressure regulator and gauges.

Hookah Limitations. Understand the operational limitations of your diving hookah. Comply with specifications that include, but are not limited to, maximum number of divers and maximum operating depth.

Using The Diving Hookah as an Air Compressor. This model diving hookah is fitted with a standard Nitto compressed air outlet and can be used as an oil-free air compressor. Oil-free compressors are not designed to run continuously and are therefore not designed to operate high airflow tools for long periods of time. The compressor requires pauses in

operation to prevent overheating.

After Use. The air storage tank should be drained of air via the drain valve located on the lower side of the air tank. Accumulated tank moisture (condensate), which has accumulated in the tank during operation, will also drain. This is normal. It is also normal for the moisture to be discolored.

BREATHING AIR NEEDS

When shopping for a recreational hookah, it is important to understand what the air demand on the hookah will be. Can a hookah reliably support one diver at depth, or can two divers be supported simultaneously at the hookah's recommended Maximum Operating Depth (MOD)? Based upon data provided by Divers Alert Network (DAN), the below chart provides average air requirements for one (1) diver under differing workloads and at various seawater depths.

DEPTH	AVERAGE BREATHING GAS NEEDS		
of Sea Water	At Rest	Light to Moderate Activity	Vigorus Exercise
0m (0') · Surface	8 L/min (0.28 CFM)	20 L/min (0.7 CFM)	70 L/min (2.5 CFM)
5m (16')	12 L/min (0.42 CFM)	30 L/min (1.1 CFM)	105 L/min (3.7 CFM)
10m (33')	16 L/min (0.56 CFM)	40 L/min (1.4 CFM)	140 L/min (4.9 CFM)
15m (49')	20 L/min (0.7 CFM)	50 L/min (1.8 CFM)	175 L/min (6.2 CFM)
20m (66')	24 L/min (0.85 CFM)	60 L/min (2.1 CFM)	210 L/min (7.4 CFM)

Source: https://world.dan.org/health-medicine/health-resource/smart-guides/13-ways-to-run-out-of-air-how-not-to/how-much-air-do-you-really-need/

Breathing Air Delivery

The recommended Maximum Operating Depth (MOD) of the Extreme 5G Petrol line of diving hookahs is 20 meters (66 feet). The following chart indicates the air output of each model in both liters per minute (L/min) and cubic feet per minute (CFM).

MODEL	EXTREME 5G 70		EXTREME 5G	
RPM	2900		2900	
OUTPUT	L/min	CFM	L/min	CFM
0m (0')	237	8.4	190	6.7
10m (33')	210	7.4	173	6.1
15m (49')	199	7.0	164	5.8
20m (66')	188	6.6	155	5.5
30m (99')	165	5.8	140	4.9
40m (132')	147	5.2	127	4.5
50m (165')	130	4.6	110	3.9
60m (198')	116	4.1	100	3.5
70m (231')	104	3.7	90	3.2
80m (264')	90	3.2	80	2.8
90m (297')	80	2.8	73	2.6
100m (330')	70	2.5	67	2.4

Exceeds Recommended Operating Depth

DANGER
Although the following chart provides air delivery information to a depth of 100 meters (330 feet), use of the Extreme 5G Petrol line by (a) more than one diver, and/or (b) deeper than the recommended MOD, will result in injury or death.

Maintenance

Under normal operation, the diving hookah requires very little maintenance.

Air Intake Filter. Periodically remove the air filter housing grille and clean or replace the air intake filter (Figure 6). Compressed air can be used to clean the filter. Clean from the center to the outside.

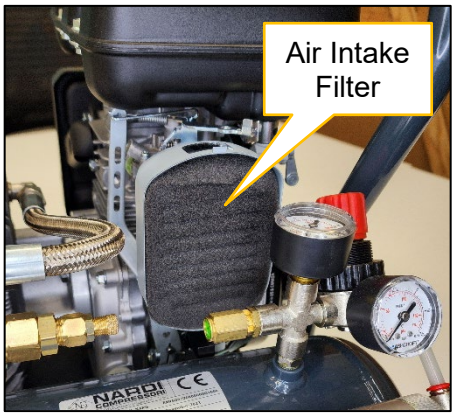


Figure 6. Air intake filter (housing grille removed).

Air Leaks. Always be on the lookout for air leaks. An air leak will cause the diving hookah to run longer and more often than necessary, which will be detrimental to the machine. An air leak will usually be audible. Air leaks may also be present if the air storage tank continuously loses pressure. Once switched on, the diving hookah should pressurize the air storage tank to approximately 145 psi (10 bar) and the tank pressure should remain at 145 psi (10 bar) until air is used by the diver. A suspected air leak can be easily located using soapy water. Any air leaks found should be rectified before continuing to use the diving hookah.

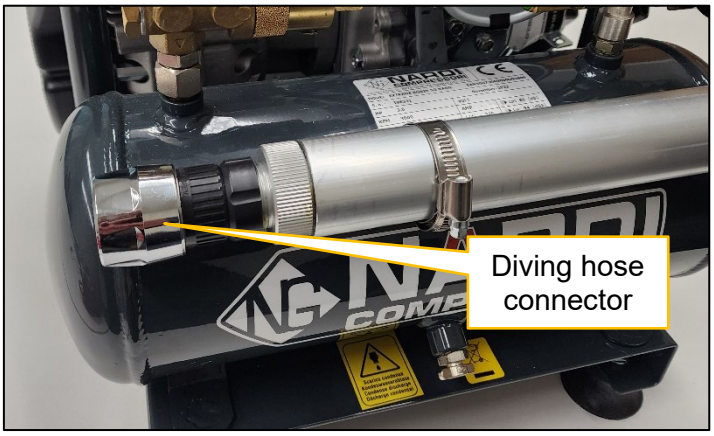


Figure 7. Diving hose connector and filter housing.

Air Tank Moisture. As previously mentioned, it is normal for the humidity in compressed air to condense. It is necessary to periodically discharge this liquid (condensate) from the air tank by unscrewing the drain plug (Figure 8) and tilting the tank slightly to drain any residual condensate.

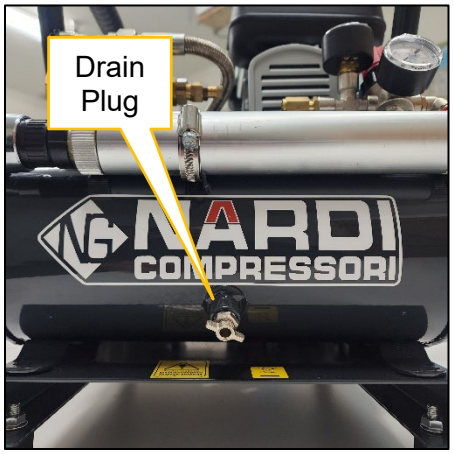


Figure 8. Air tank drain plug.

Breathing Air Filter Cartridge. The breathing air filter (mounted on the air storage tank) contains a replaceable filter cartridge. The filter cartridge should be replaced every 20 to 30 operating hours or anytime when outlet air odor is detected. If the diving hookah is being used regularly in a commercial setting, it may be necessary to replace the cartridge more frequently. The filter cartridge can be accessed by unscrewing the knurled aluminum end of the filter housing along with the diving hose connector (Figure 8). Replacement filter cartridges are available from authorized dealers (SKU AC036-101).

Service Kits. Service/Rebuild Kits are available for the Extreme 5G Petrol diving hookah (SKU EX041-160 and EX054-170). The service kit includes replacement piston seals, gaskets, O-rings and air intake filters. A service kit may be required if the diving hookah has been operated extensively in a commercial setting or if the diving hookah has overheated.

ACCESSORIES

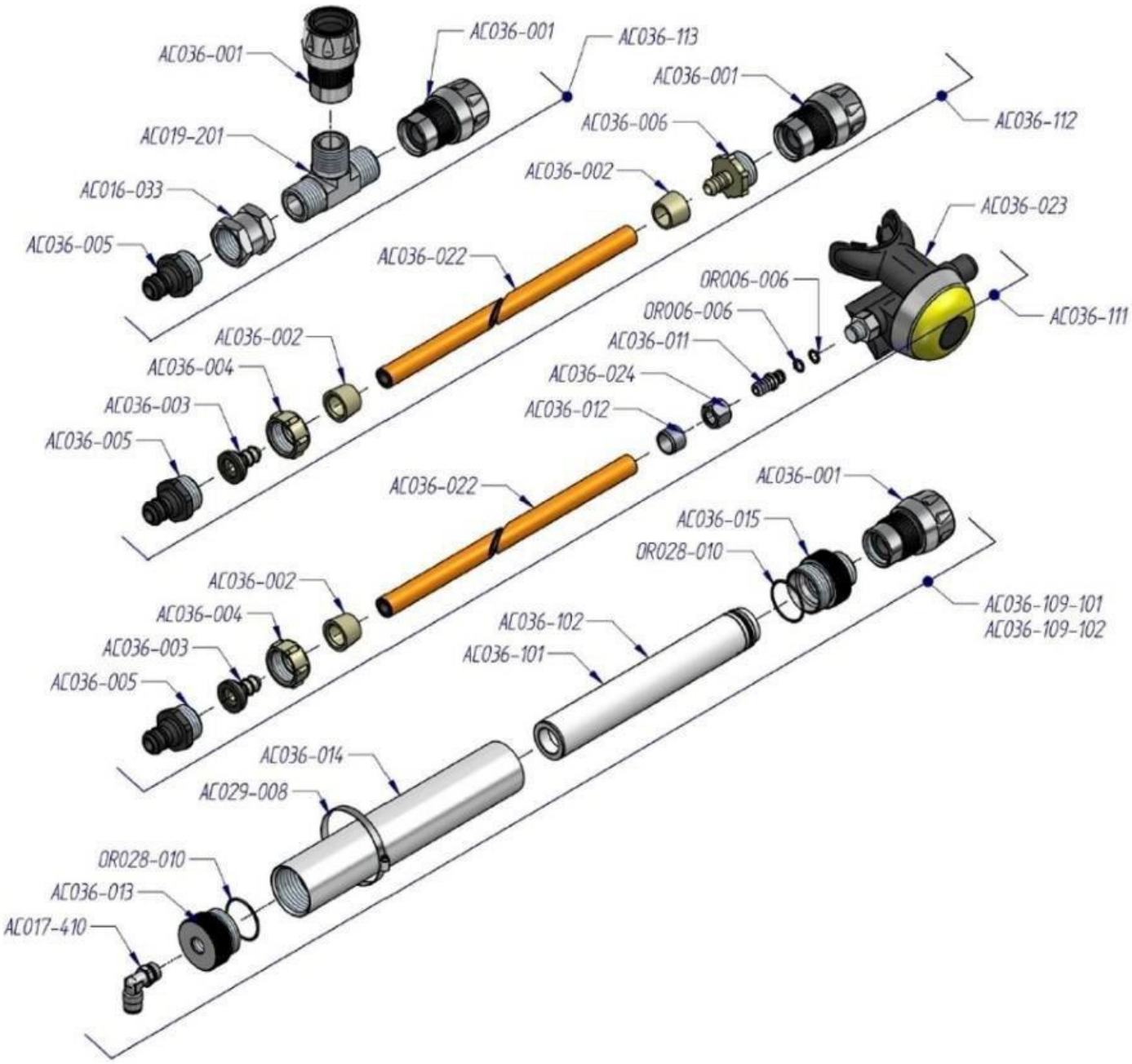
Extreme 5G Petrol hookah accessories can be purchased from NUVAIR.com.

IMAGE	SKU	DESCRIPTION
	NUVRAI-HOOKAH	**Nuvair Hookah Remote Air Intake** *Not available for individual sale. Nuvair only sells gasoline-powered hookahs with a 15-foot-long Remote Air Intake (RAI). This part is custom-made at the Nuvair California product facility. Installing the RAI requires factory modifications to the hookah pump.*
	9625	**Nuvair Pro CO Alarm Handheld Analyzer** *Designed to detect the presence of carbon monoxide (CO) in stored gas cylinders, enclosed spaces and compressors, the handheld Nuvair Pro CO Alarm analyzer comes with two user-programmable alarms.*
	AC036-112	**Nardi 17m (55.8') Hookah Extension Hose** *This genuine Nardi extension hose fits directly to the breathing air outlet on your diving hookah and extends the length of a standard NARDI Hose & Regulator to 111.6 feet (34m). Regulator not included. Do not exceed your hookah's Maximum Recommended Depth. Hose ID: 8mm · Hose OD: 15mm*

	**AC036-111**	**Nardi 17m (55.8') Hookah Hose with Regulator** *The hookah hose and regulator set ships as standard equipment with all Nardi diving hookahs.*
	**AC036-113**	**Nardi T-Coupling for Dual Hookah Hoses** *The T-Coupling allows for the connection of two (2) dive hoses to a single hookah. This device can only be used on hookahs rated for two (2) divers.*
	**AC036-102**	**Nardi Hookah Air Filter· Gasoline Version** *Genuine NARDI Replacement Filter Cartridge for breathing air. This item suits gasoline-powered diving hookahs or in environments where carbon monoxide (CO) is a concern. Cartridges go through a decontamination process and are then sealed, and vacuum packed to ensure integrity during storage.*
	**EX041-160**	**Nardi Hookah Service Kit** *This service kit fits the following diving hookah models:* *5G60 Gasoline (270 LPM)*
	**EX054-170**	**Nardi Hookah Service Kit** *This service kit fits the following diving hookah models:* *5G70 Gasoline (380 LPM)*

REPLACEMENT PARTS

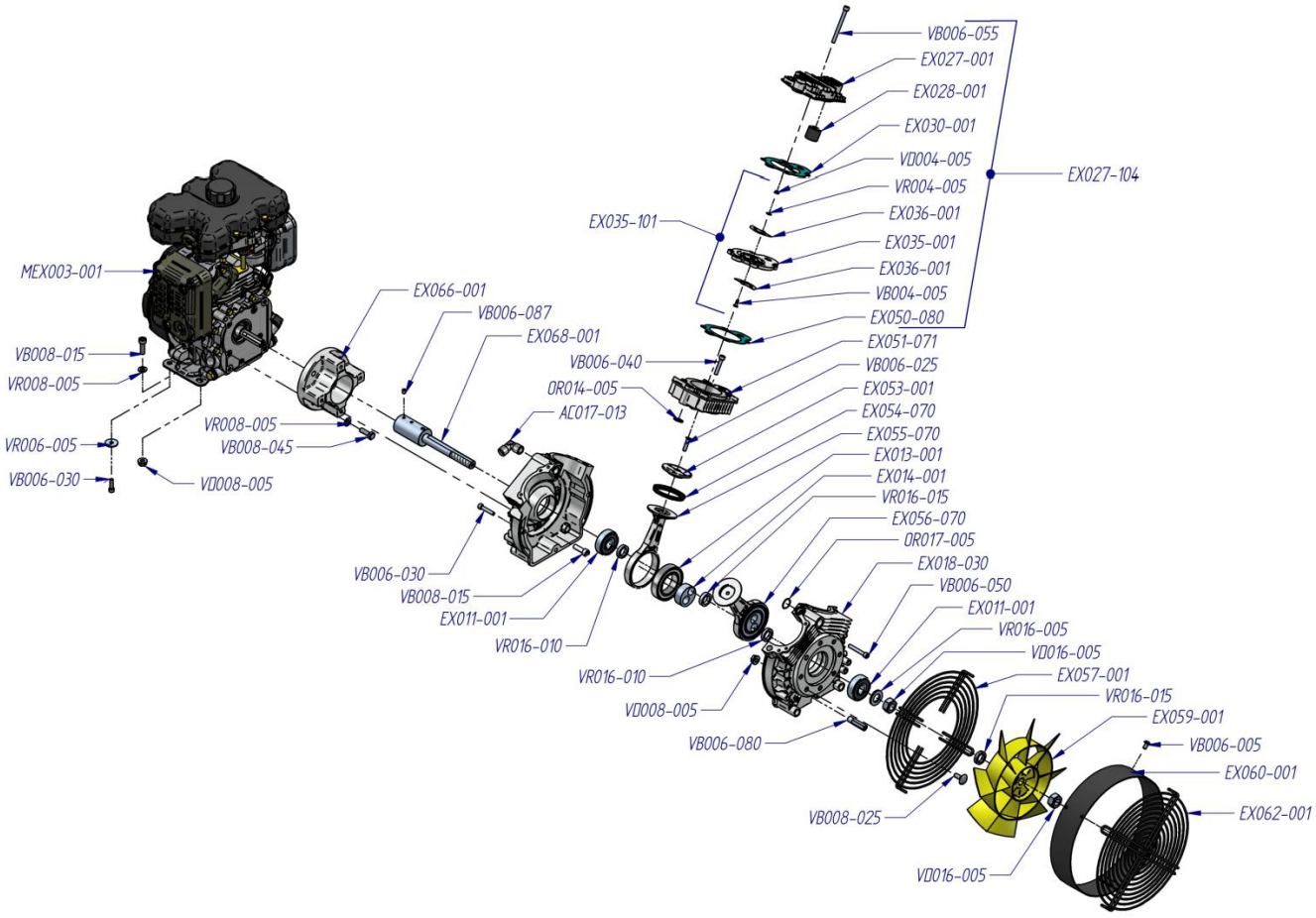
Parts diagrams for the Extreme 5G Petrol follow. Parts can be purchased from NUVAIR.com.



NARDI COMPRESSORI

SPARE PARTS
EXTREME 5G 70
Unit pump - gasoline motor

EX000-061 Rev.01
Date 31/07/2014



CODE	DESCRIPTION		CODE	DESCRIPTION		CODE	DESCRIPTION	
AC017-130	Pipe felling "L"		EX054-070	Piston seal		VB006-050	Screw	
EX011-001	Bearing for compressor monobloc		EX055-070	Connecting rod		VB006-055	Screw	
EX013-001	Bearing for connecting rod		EX056-070	Complete connecting rod		VB006-080	Screw	
EX014-001	Handspike socket		EX057-001	Metal protection		VB006-087	Screw	
EX018-010	Compressor Monobloc		EX059-001	Plastic fan		VB008-015	Screw	
EX027-001	Head		EX060-001	Metal cover fan		VB008-025	Screw	
EX027-104	Complete Head		EX062-001	Metal protection		VB008-045	Screw SUBARU	
EX028-001	Filter		EX066-001	Flange EXTREME 5G GASOLINE		VD004-005	Nut	
EX030-001	Gasket head		EX068-001	Shaft EXTREME 5G GASOLINE		VD008-005	Nut	
EX035-001	Valve plate		MEX003-001	Robin – Subaru 3,0 Hp gasoline		VD016-005	Nut	
EX035-101	Valve plate complete		OR014-005	O-ring		VR004-005	Washer	
EX036-001	Valve		OR017-005	O-ring		VR006-005	Washer	
EX050-080	Gasket cylinder 0,8		VB004-005	Screw		VR008-005	Washer	
EX050-050	Gasket cylinder 0,5		VB006-005	Screw		VR016-005	Washer	
EX050-030	Gasket cylinder 0,3		VB006-025	Screw		VR016-010	Washer	
EX051-071	Cylinder		VB006-030	Screw		VR016-015	Washer	
EX053-053	Piston top		VB006-040	Screw				

WARRANTY

Your Nardi diving hookah is covered by a 12-month warranty against defective components. The warranty does not cover normal wear and tear, nor does it cover defects caused by misuse or operation not in accordance with the supplied User Manual. Please retain your original purchase receipt as proof of purchase. Shipping costs are the hookah owner's responsibility.

For additional warranty information or to register your product for warranty coverage within 10 days of receipt, please visit https://nuvair.com/warranty-registration.

Recycling
The compressor must be scrapped according to disposal norms in the country where it will be disposed of.

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