

TECHNICAL NOTIFICATION 01/2019

Subject : Developments and Updates of the *Atlantic 60 e Atlantic 100* models

Nardi Compressori is pleased to announce this technical notification about the upgrades and improvements done on compressor models ATLANTIC 60 e ATLANTIC 100. These changes and improvements were done to improve the reliability and the performance of these compressors .

The following points describe in detail these technical updates:

- 1. ATLANTIC pump unit : Test endurance and performance on 100% of our production;**
Tested on specific test benches, temperature and pressure of each stage, electrical consumption and the real airflow of the pump unit are automatically tested by means of a PLC.
If the pump unit does not enter in the +/-5% tolerance, the pump unit will be discarded and retested.
- 2. Finished ATLANTIC compressor : Final bench test of the assembled compressor and its accessories.**
Once the compressor is fully assembled with its accessories we check again the electrical consumption and the real flow of the compressor. Every fitting is checked to make sure there are no air leaks.
- 3. Traceability;**
At NARDI we keep a traceability of each pump unit and compressor we manufacture, a guarantee of efficiency and reliability.
- 4. Air analysis is performed on every 10 finished compressors;**
Tests are done to check air quality, CO₂ and CO. The CO₂ results are in the limits of current norms (max 500 ppm) and the CO is equal to 0 ppm.
- 5. Cartridge lifetime;**
The cartridge lifetime has been increased by 70% thanks to the following upgrades and changes.

Atlantic test bench



Detailed descriptions of Technical improvements and changes done :

1. 1st stage: New cylinder, valve plate and head;

This upgrade has improved thermic efficiency of the stage with better cooling of the hot parts.
The performance of the compressor has improved thanks to the new valve plate.

2. 2nd stage: New finishing process of valves;

Improvement of the compressor's 2nd stage efficiency with a reduction of the carbonaceous remains.
This means less maintenance needs and lower temperature.

3. 3rd stage: New finishing process of the outlet valve;

Improvement of the compressor's 3rd stage efficiency with a reduction of the carbonaceous remains.
This means less maintenance needs and lower temperature.

4. 4th stage: New finishing process of the outlet valve;

Improvement of the compressor's 4th stage efficiency with a reduction of the carbonaceous remains.
This means less maintenance needs and a lower temperature.

5. 4th stage: improved material and tolerance of the elastic rings;

This improvement resulted in a 70% less of wear & tear and therefore an increase of the compressor performance.

6. Air leakage;

Minimum air leaks in the pump unit housing. This reduces considerably the lubricant consumption with the result of having less carbonaceous remains forming around the compression valves.

7. General info;

Improved the thermic treatments of materials, verified with 3.1 conformity certificate;

8. General info;

Surface finishings have also been improved, these are now checked and certified;

9. Fitting glue;

Replacement of old glue-paste with a new one suitable for high temperature gases, securing all fittings and seals.

10. Oil type replacement;

We have developed a specific oil for breathing air which does not create carbonaceous remains in the valves, it lubricates perfectly all internal parts of the compressors and it has no unpleasant smells.

11. New O-ring type on filter tap;

For a better tightening and limits replacement of the o-ring.

12. Safety valve;

Improvement of the inner tightening of the valves by using o-rings made of a special material suitable for high pressures and high temperatures.

13. Automatic condensation drain;

The automatic condensation drain has been improved, it is now more precise and better performing.

14. Drain pipes;

The pipes installed are made of a PU material which is resistant to pressure, to water and oil and suitable for our compressor drain. More reliable and compatible with the 100% of the fittings found in the market.

15. Optional;

New eco-friendly condensation collection drain of 5lt. Easy to install and to empty.

16. Optional;

New trolley frame with a reclining handle and closure for easy transportation and use.

New trolley frame



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