

MEET A TRUE HEIGHT-SAVER NOVENCO RECTANGULAR TUNNEL JET FANS



DESIGNED TO SAVE SPACE

NOVENCO tunnel jet fans are developed for exhaust gas ventilation, visibility and smoke control in road and train tunnels. They guarantee effective ventilation and smoke control in case of a fire.

NOVENCO provides a special designed range of space-saving rectangular tunnel jet fans for tunnel profiles with minimal available installation height. The design is characterised by a space-saving rectangular shape and is based on the renowned range of NovAx™ axial flow fans, which efficiency is still unmatched in many fields. Compared to standard round tunnel fans, the required installation height is at least 20% less for these rectangular tunnel fans. In cases where the height of the technical installations is limited, this solution is

particularly effective and desirable by tunnel designers and builders, especially for tunnels with rectangular tunnel profiles. By using the NOVENCO rectangular tunnel fans, the tunnel height can be significantly lower, which returns in huge savings on construction costs of the tunnel over the whole length.

UNIQUE AIR DEFLECTORS

NOVENCO's efforts in research and development reflect their dedication to create products on the technological forefront with respect to performance and durability. NOVENCO has designed and developed this space-saving solution based on its many years of experience in the field of tunnel ventilation.

For this particular solution NOVENCO uses specially designed aerodynamic wing-shaped deflectors, which result in a much better overall system efficiency than conventional air deflectors.

LONG LIST OF REFERENCES

These space-saving tunnel jet fans have been installed in a large number of underwater- and city tunnels, where minimal installation height is of the essence. Just to mention a few; the Maastunnel in Rotterdam, the Piet Hein tunnel in Amsterdam, the A2 Leidsche Rijntunnel near Utrecht, the Koningstunnel in Den Haag and the Abdijntunnel in Hoofddorp are among NOVENCO's worldwide references.

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SIMPLE COMPARISON

A comparison of the rectangular NOVENCO ARC-800 vs the equivalent round ARR-800 with the same performance data show the Unique Selling Point (USPs) of NOVENCO's special designed rectangular range of tunnel jet fans.

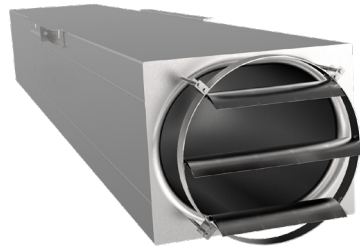
In conditions where installation space for tunnel jet fans is limited, the NOVENCO rectangular fans play an essential role for designing ventilation and smoke control solutions.

And last but not least, the rectangular range of tunnel jet fans provide a lower sound level, which ensure better conditions and driving comfort in the tunnels.

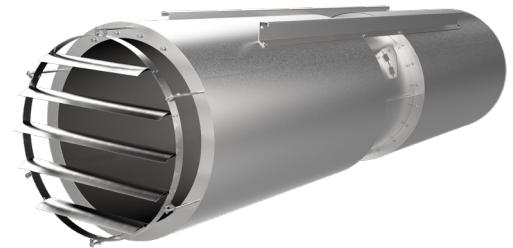
For more technical data on the complete range of NOVENCO tunnel jet fans, please refer to our tunnel fan catalogue on www.novenco-building.com

FACTS

- UP TO 21% LESS INSTALLATION HEIGHT
- AVAILABLE UP TO 400°C FOR 2 HOURS
- SIGNIFICANT SAVINGS ON THE TUNNEL CONSTRUCTION HEIGHT



Rectangular tunnel jet fan ARC-800



Round tunnel jet fan ARR-800

| Type | ARC-800 | ARR-800 |
|---------------------|-------------|-----------|
| Execution | Rectangular | Round |
| Reversibility | 100% | 100% |
| Thrust | 712 N | 712 N |
| Power | 25 kW | 25 kW |
| Sound level | 71 dB (A) | 77 dB (A) |
| Fan length | 3.220 mm | 3.650 mm |
| Installation height | 840 mm | 1.020 mm |