



**Identification of the installation/facility :**

Country: Belgium  
Location (city): Rhode-Saint-Genèse  
Name of the facility: Wind tunnel L-1  
Date of construction or of acquisition or of main refurbishment: 1960  
Owner: von Karman Institute for Fluid Dynamics (VKI)  
Contact point: Philippe Planquart  
Internet site: [www.vki.ac.be](http://www.vki.ac.be)

**Technical characteristics:**

*1 - Type of infrastructure*

- |  |                                     |
|--|-------------------------------------|
| Wind tunnel  | <input checked="" type="checkbox"/> |
| Propulsion bench                                     | <input type="checkbox"/>            |
| Structures facility                                  | <input type="checkbox"/>            |
| Material facility                                    | <input type="checkbox"/>            |
| Simulator (ex. Flight simulator, tower, ...)         | <input type="checkbox"/>            |
| Flight test bed (aircraft, embedded facilities, ...) | <input type="checkbox"/>            |
| Supercomputers                                       | <input type="checkbox"/>            |
| Other  | <input type="checkbox"/>            |

*2 - Main technical characteristics*

Def: Large scale continuous wind tunnel ( $V < 60$  m/s, test section diameter about 3 m). External aerodynamics and aero-acoustics. Aeronautics and environmental test sections available.

*3 - Research domains which can be addressed (refer to ACARE taxonomy <http://www.acare4europe.com/docs/ASD-Annex-final-211004-out-asd.pdf>)*

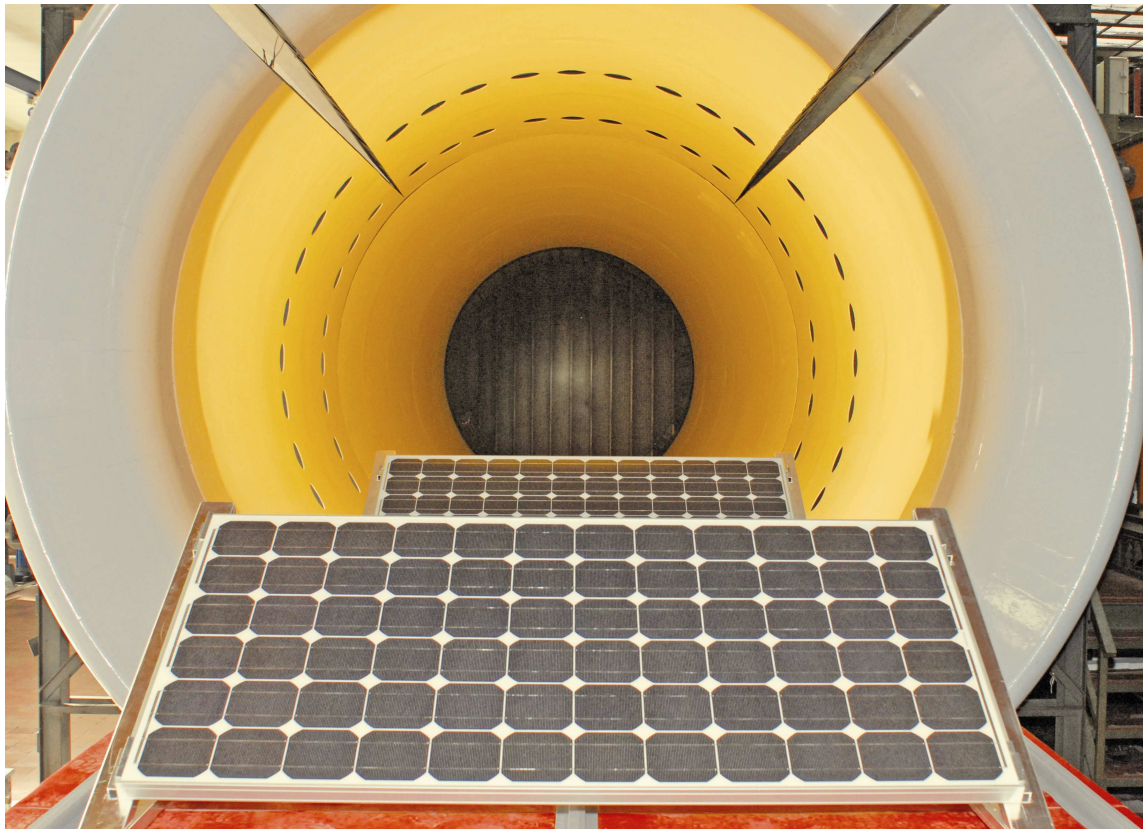
*4 - Main (or specific) associated measurement techniques*

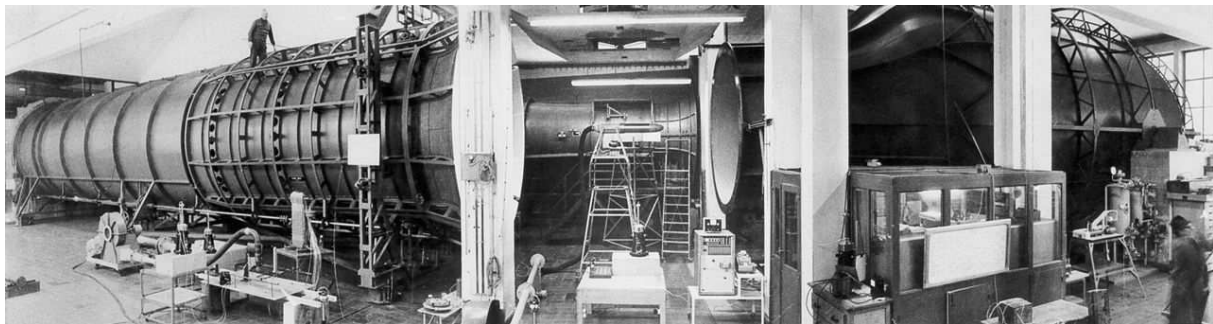
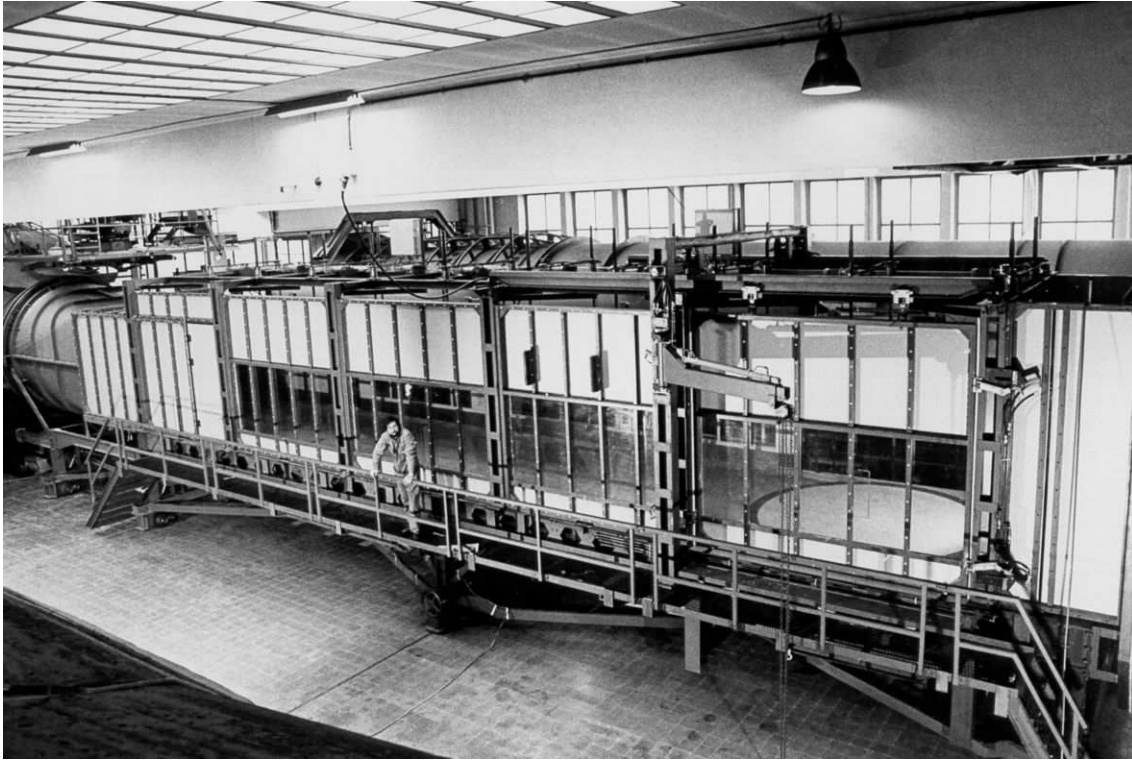
Pneumatic pressure probes. Hot wire anemometry. Force and moment balances. Microphones. Flow visualization. PIV-LDV

*5 - Operational status*

- Fully operational

*6 - Pictures:*





**Financial elements:**

Replacement cost (M€uros)

Less than 10

10 to 30

30 to 60

60 to 100

More than 100

**Practices concerning:**





Access policy (contract, voucher, free access for research, etc...)  
contract/research

Support (regional, national, European, private, ...)  
Public

**Comments:**

**Origin of information** ('signature'): author and date Tony Arts 21/12/2012