

AN OVERVIEW OF THE CIRA ICING WIND TUNNEL

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INTRODUCTION

CIRA, the Italian Aerospace Research Centre, has recently built a new Icing Wind Tunnel with the aim to provide aerospace industries, airworthiness authorities and research centres with a modern platform for icing test on a wide variety of test articles, including 2D models, 3D assembly parts, control surfaces and engine nacelles.

The CIRA Icing Wind Tunnel (IWT) is a state of the art facility for icing tests and experiments having a wide icing envelope coupled with fine flow quality. This document describes the wind tunnel technical characteristics and performances, its instrumentation and the typical operative procedures.

The CIRA IWT is equipped with complete tunnel instrumentation for both aerodynamic and icing measurements. CIRA test engineers are available for measurement support and data interpretation. Nevertheless customers are free to operate, within their individual agreement with CIRA, their own instrumentation.

The facility is located in Capua (CE), Italy about 50 km north of Naples. The Icing Wind Tunnel is part of a brand new complex which includes ground testing facilities and dedicated service utilities making up the Italian Aerospace Research Centre. The picture in fig.1 shows an aerial view of the facility.



Fig. 1: Icing Wind Tunnel aerial view

LIST OF ACRONYMS

ADA	Airborne Droplet Analyser
Alt	Altitude
ATS	Additional Test Section
CIRA	Centro Italiano Ricerche Aerospaziali
CL	Wind Tunnel Centre Line
CS	Cooling System
DAFE	Data Acquisition Front End
DAH	Data Acquisition Host
DAS	Data Acquisition System
DPS	Data Processing System
EBS	External Balance System
EFS	Engine Flow Simulation system
FAR	Federal Aviation Regulation
FMS	Facility Management System
RS	Flow Reference System
GUI	Graphic User Interface
HX	Heat Exchanger
HW	Hardware
IB	Icing Blade
IG	Icing Grid
IWT	Icing Wind Tunnel
LDV	Laser Doppler Velocimeter
LWC	Liquid Water Content
MC	Model Centre
MSS	Model Sting Support
MTS	Main Test Section
MVD	Mean Volumetric Diameter
PDPA	Phase Doppler Particle Analyser
Ps	Static Pressure
Pt	Total Pressure
PTS	Probe Traversing System
q	Dynamic Pressure
RH	Humidity Factor
SBS	Spray Bar System
STS	Secondary Test Section
SW	Software
TAL	Test Automation Language
TAS	Test Automated Scripts
TS	Test Section
UPS	Uninterruptible Power Supply
V	Velocity
VI	Virtual Instrumentation
WT	Wind Tunnel

Cira Icing Wind Tunnel User Manual

Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Experimental Aerodynamics Bruno Chanetz, Jean Déler, Patrick Gilliéron, Patrick Gnemmi, Erwin R. Gowree, Philippe Perrier, 2020-01-03 This book presents experimental techniques in the field of aerodynamics a discipline that is essential in numerous areas such as the design of aerial and ground vehicles and engines the production of energy and understanding the wind resistance of buildings Aerodynamics is not only concerned with improving the performance and comfort of vehicles but also with reducing their environmental impact The book provides updated information on the experimental and technical methods used by aerodynamicists engineers and researchers It describes the various types of wind tunnels from subsonic to hypersonic as well as the problems posed by their design and operation The book also focuses on metrology which has allowed us to gain a detailed understanding of the local properties of flows and examines current developments toward creating a methodology combining experiments and numerical simulations the computer assisted wind tunnel Lastly it offers an overview of experimental aerodynamics based on a prospective vision of the discipline and discusses potential futures challenges The book can be used as a textbook for graduate courses in aerodynamics typically offered to students of aerospace and mechanical engineering programs and as a learning tool for professionals and engineers in the fields of aerodynamics aeronautics and astronautics automobile **Journal of Aircraft** ,1998 **Particle Image Velocimetry**

Andreas Schröder, Christian E. Willert, 2008-01-14 This book summarizes the main results reached using the EC funded network PivNet 2 It also presents a survey of the state of the art of scientific research using PIV techniques You get a clear introduction to the basics of these techniques The authors then guide you through current and possible future applications for flow analysis including combustion and supersonic flow Hundreds of illustrations many in full color are provided

Aerodynamics of Wind Tunnel Circuits and Their Components North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Fluid Dynamics Panel. Symposium, 1997 *20th AIAA Advanced Measurement and Ground Testing Technology Conference* ,1998 **Jane's Defence Industry** ,2003 **Aerospace America** ,2004

Overview of the CIRA Icing Wind Tunnel L. Vecchione, 2003 Flight International ,2006 **Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 300)** ,1994 *The New CIRA Icing Wind Tunnel Spray Bar System Development* G. Leone, 2000 *NASA Lewis Icing Research Tunnel User Manual* ,1990

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