

## European Solar and Energy Storage Solutions

# Bess labs performance test Argentina

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## Overview

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What is a Bess lab?

Today, we share the information about the BESS lab in Agricultural and Biological Engineering at U of I. A unique laboratory, BESS conducts ventilation fan performance testing for companies, and posts results in an online database that anyone can access and use to select fans. Handout for AnSci 403 on how to pick a fan from the database.

What is a Bess Lab certification for agricultural fans?

In the fast-paced world of industrial manufacturing, the BESS Lab certification for agricultural fans stands as a guarantee for quality, and efficiency. As industries and farmers continue to underline sustainability and operational excellence, the importance of reliable and energy-efficient equipment cannot be overstated.

Are Termotecnica Pericoli fans Bess lab certified?

Once the prototyping phase is accomplished, our technicians fly to the University of Illinois to conduct official tests. All fans signed by Termotecnica Pericoli are BESS Lab certified (or in the certification process). BESS Lab certification for agricultural fans stands as a guarantee for quality, and efficiency.

What are the benefits of Bess Lab certification?

**Compliance with International Standards:** BESS Lab is a globally recognized lab. This allows companies with products with certified performance to access tenders, funds and government grants of various kinds rapidly and transparently. **Market Competitiveness:** Products with BESS Lab certification gain a competitive edge in the market.

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### Bess Lab - DACS MagFan ONE best in test

The test was conducted on the New MagFan ONE at Bess Lab University, Georgia from 6 th to 8 th of August 2018. MagFan ONE is the company's "conventional" ON/OFF wall fan. The MagFan ONE simply sets new standards in terms of efficiency, capacity and pressure performance.

### Nondestructive, Mechanical Testing, Failure Analysis, SEM , Bess ...

Bess Materials Testing & Inspection has been a leader in industrial materials testing and inspection, as well as failure analysis since 1964. Many know us by our former trade name "Bess TestLab", which now provides specialized services exclusively to the construction and utility industries, but under our new name we are the same skilled staff, using the same procedures ...



### 0608 PD: BESS tests larger livestock ventilation fans

As animal housing continues to move toward larger buildings, the research team at the Bioenvironmental and Structural Systems (BESS) Lab at the University of Illinois is working hard to keep up with industry trends. What this means is that the BESS Lab, which is known worldwide for testing livestock ventilation fans, is checking out larger and larger fans. "For ...

## Australian battery performance testing standard project

New state-of-the-art laboratories, designed and dedicated specifically to investigate solar PV/renewable generation and energy storage technologies, will be devoted to this work. CSIRO will predominantly be involved with the development of the performance metrics as well as the testing of various BESS to validate the performance metrics.



## Understanding Fan Performance Metrics and Variability

Bess labs at the University of Illinois performs fan performance tests that can be found online. Evaluating Fan Performance. To give a sense of the variability of fan performance, Table 1 below was created from the Bess lab data to demonstrate the average and range of performance based on the overall design of the fan.

## BESS

The Bioenvironmental and Structural System (BESS) Laboratory is a research, product-testing and educational laboratory. The lab provides unbiased engineering data to aid in the selection and design of agricultural buildings and assists equipment manufacturers in developing better products. Included on this site are performance test results



## College of Agricultural and

## Environmental Science/Athens,

...

University of Illinois BESS Laboratory "Agricultural Ventilation Fans Performance and Efficiencies" test booklet is the leading source for agricultural fan performance data (an electronic version of the test booklet can be found at ) Along with a fan's air moving capacity at various static pressures BESS Laboratory provides



## Best Performing Tunnel Fans - 2019

Table 2 lists the top performing tunnel fans (48" to 62", 230V/Single phase, 60 hz) based on the published test results produced by the BESS Laboratory through December 31, 2019. The fans in Table 2 have an energy-efficiency rating of at least 20.8 cfm/watt @ 0.10" static pressure and have an air-flow ratio of at least 0.76, representing



## Ag Fan Testing: U of I BESS Labs

Today, we share the information about the BESS lab in Agricultural and Biological Engineering at U of I. A unique laboratory, BESS conducts ventilation fan performance testing for companies, and posts results in an online database that anyone can access and use to select fans. BESS Lab website is here: [bess.illinois](http://bess.illinois)

## Understanding Fan Performance Metrics and Variability

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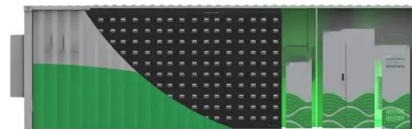


## Excellent BessLab report for Fancom I-Fan 145 & FAN ...

We are very proud that also BessLab confirms Fancom fans are one of the best performing and sustainable fans available in the market. Last month BessLab published the results of the tests of the I-Fan 145 and the Fan ...

## Understanding Fan Performance Metrics and Variability ...

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## The Importance of BESS Lab Certification for Agricultural Fans

BESS Lab, short for "Bioenvironmental and Structural Systems Laboratory," is a globally recognized research lab at the University of Illinois (USA) that specializes in testing the performance, and energy efficiency of ventilation

fans ranging in ...



## BLUEFAN DA 1700

BlueFan has been tested at BESS Lab, which is a research, product-testing and educational laboratory in Illinois, USA. BESS Lab provides performance test results for agricultural ventilation fans and has tested the different variants of BlueFan, which has resulted in 24 test reports. Below, you see some of the impressive test results from BESS Lab.



## Test day at BESS Labs

The testing done by BESS Labs provides foreign manufacturers with confirmed data accepted throughout the world. So, what is a wind tunnel? Image of wind tunnel. Photo submitted by Hog Slat Inc. The BESS Lab unit is a 9' x 9' x 26' long wooden chamber. To begin the test, the team fastened the test fan at one end of the chamber and warmed up the

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## MagFan, best in test at Bess Lab

MagFan was tested at Bess Lab in January 2019. Compared to all other fans tested at Bess Lab, MagFan is quite simply in a league of its own in terms of not just efficiency but also total airflow. No other fan comes anywhere near the performance and efficiency of MagFan.



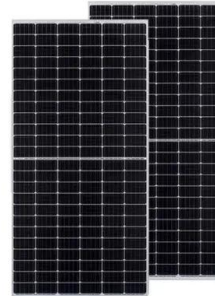
## Test day at BESS Labs , Hog Slat

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## Bess Lab

This Bess Lab test clearly demonstrates the extreme importance of good aerodynamics. The carefully designed fan body and impellers (pat. pending) we use on MagFan bring distinct advantages over any other fan on the market - be they conventional on/off fans or fan using highly advanced frequency controlled Permanent Magnet motors. The motor



## Select Performance Tests

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