



S-CU-400-E1-CB

EC FAN

Data Sheet

EC MOTOR DATA SHEET

1. Introduction

This is the data sheet for the product with the impeller.

This data sheet is a data value tested by the official testing and certification authority.

2. Technical Data

- ▶ Model : S-CU-400-E1-CB
- ▶ Type of Protection : IP54
- ▶ Input Voltage : 380V – 400VAC (3PHASE)
- ▶ Input Frequency : 50/60hz
- ▶ Switching Frequency : 0 ~ 10kHz
- ▶ Speed : Rated 300~2510RPM
- ▶ Input Power : MAX 2.2KW
- ▶ Operating Temperature : -40°C ~ +60°C
- ▶ Operating Humidity : +60°C , 85% R.H.,

3. Control

- ▶ Wi-fi 802.11 b/g/n
- ▶ Bluetooth Ver4.2
- ▶ Modbus RTU (RS-485)
- ▶ IoT Control

4. Data Accuracy

Platform display values and Real Measurement values

* Updated December 2024 output data accuracy, within 10% error range. *

Part	Wireless Control Platform (PC and Mobile app)	Real Measure Value	Tolerance Range
Output	1 486W	2 003W	25.8%
Speed	2 550min-1	2 571 min-1	0.8%
Current	4.717A	5.040A	6.4%

5. Fault Diagnostics

- ▶ Over Temperature (100°C)
- ▶ Gate kill (Over Current)
- ▶ Phase Loss
- ▶ Flux out of control

6. Applications

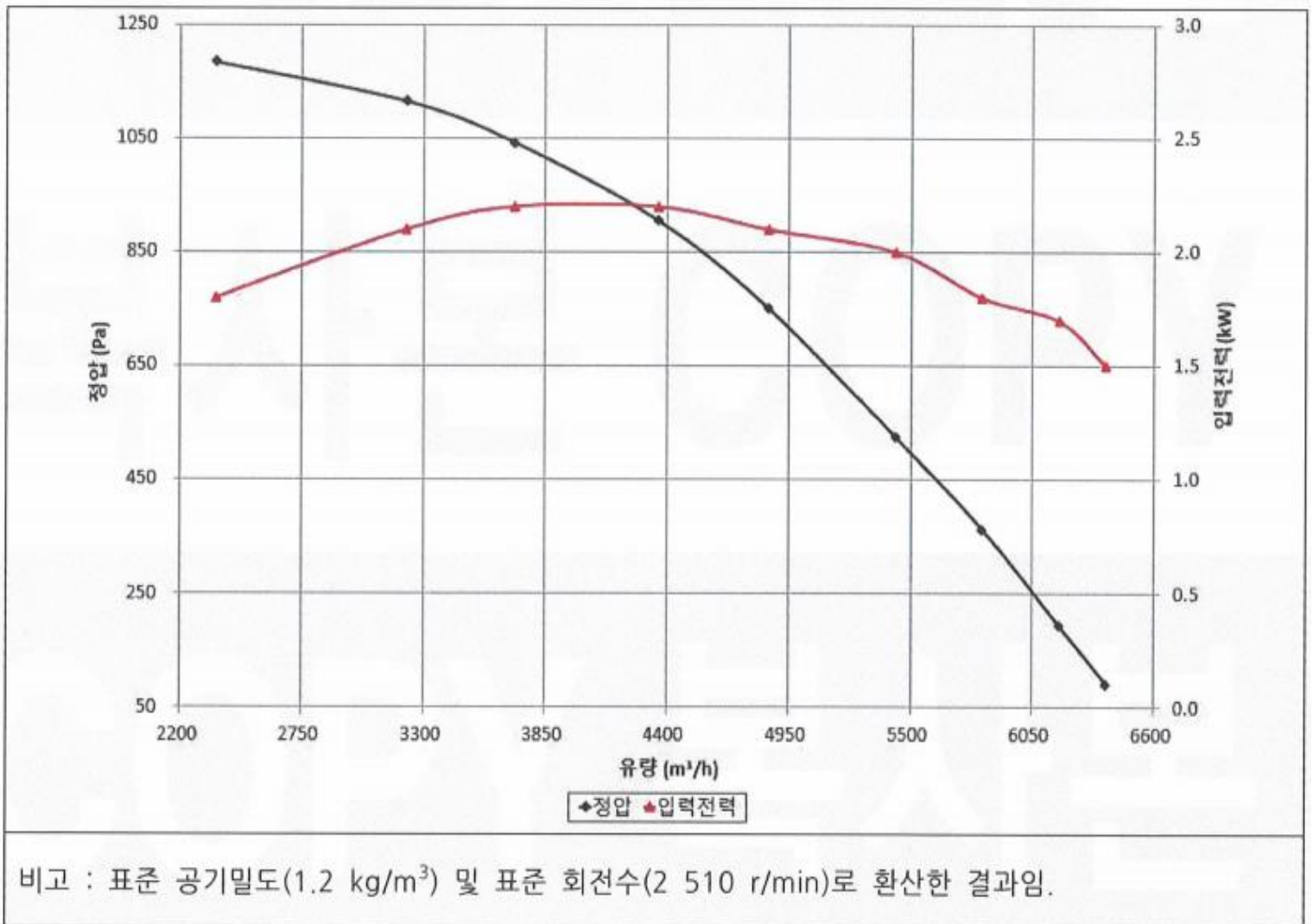
- ▶ Fans

- ▶ Pumps
- ▶ Compressors
- ▶ Blowers
- ▶ Unit Handling
- ▶ HVAC systems
- ▶ Variable speed applications
- ▶ General purpose applications

7. Control Method

- ▶ Bluetooth Control
- ▶ IoT Control
- ▶ ModbusRTU (RS-485)
- ▶ VSP (0-10V)

8. Fan Performance Curve



9. Test Standard

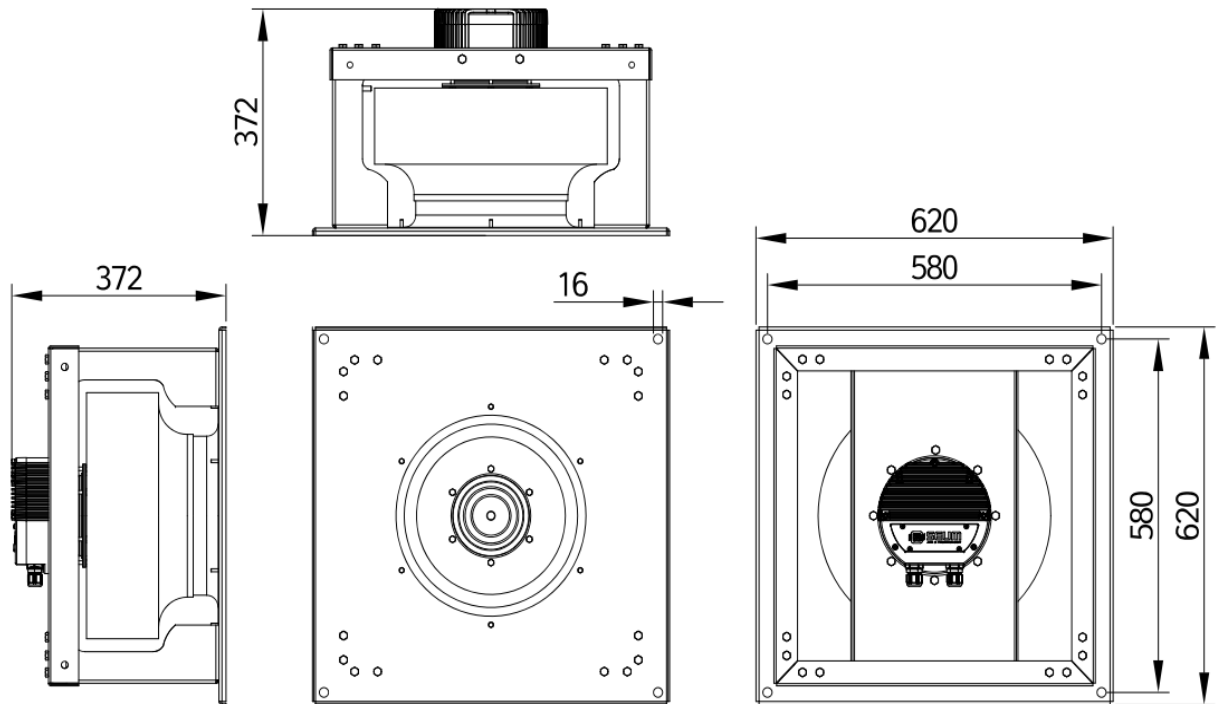
▶ KS B 6311 : 2022

시험 항목	단위	측정점								
		1	2	3	4	5	6	7	8	9
정압	Pa	92	195	363	525	752	906	1 043	1 116	1 185
유량	m ³ /h	6 388	6 175	5 828	5 436	4 858	4 362	3 709	3 217	2 356
입력전력	kW	1.5	1.7	1.8	2.0	2.1	2.2	2.2	2.1	1.8
비고 : 표준 공기밀도(1.2 kg/m ³) 및 표준 회전수(2 510 r/min)로 환산한 결과임.										

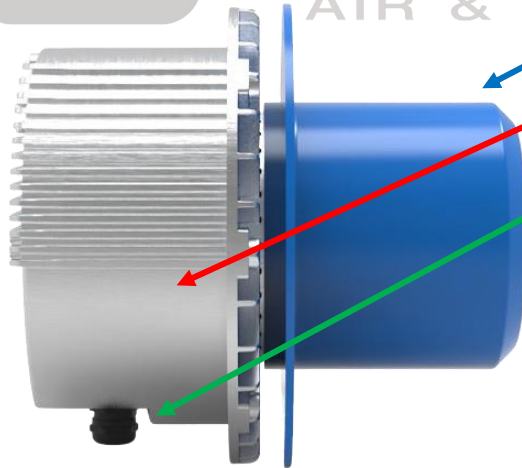
1-2. 시험 결과 : 시험 조건

시험 항목	단위	측정점								
		1	2	3	4	5	6	7	8	9
밀도	kg/m ³	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17
정압	Pa	90	191	356	513	735	883	1 017	1 086	1 152
유량	m ³ /h	6 385	6 172	5 826	5 432	4 855	4 360	3 710	3 218	2 357
회전수	r/min	2 509	2 509	2 509	2 508	2 509	2 509	2 511	2 511	2 511
입력전력	kW	1.5	1.6	1.8	1.9	2.1	2.2	2.1	2.0	1.8

10. Drawing



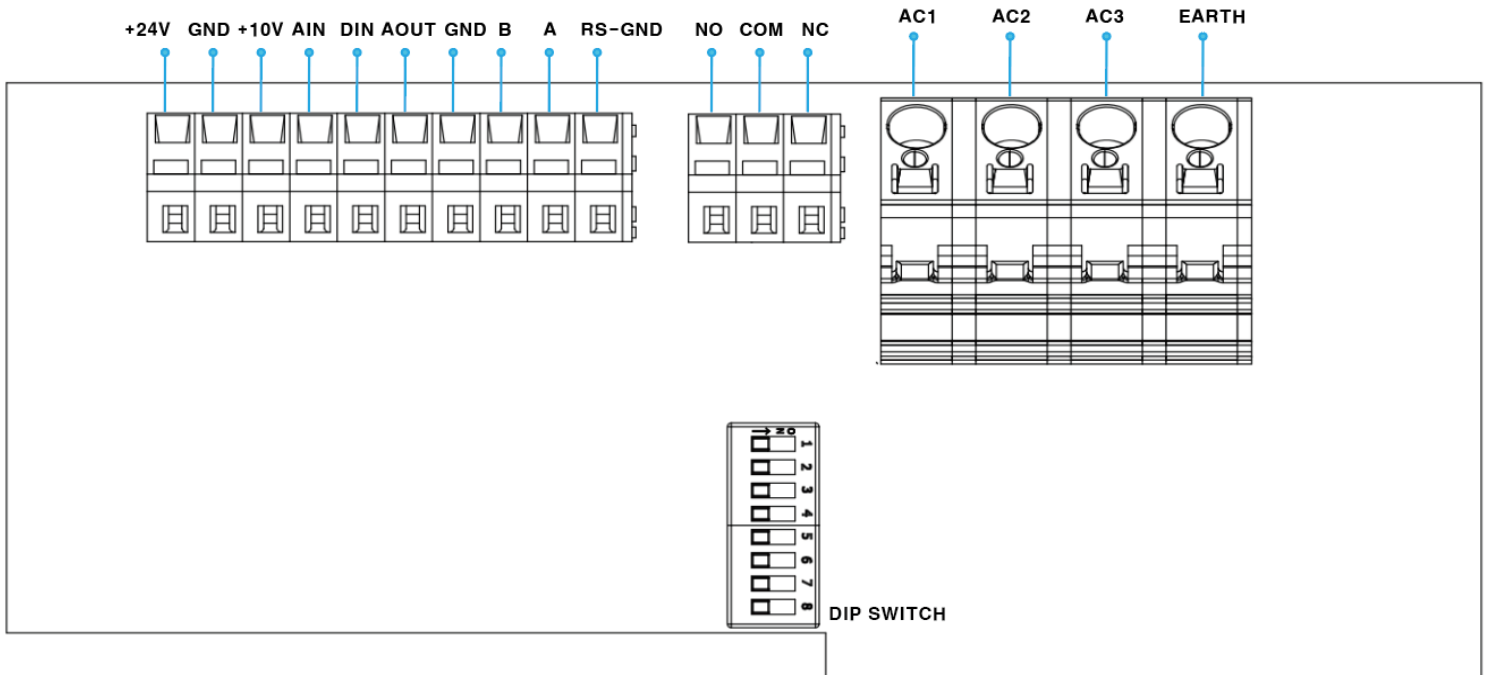
11. Motor Detail



1. External rotor
2. PCB Hardware built-IN
3. Input power cable terminal

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12. PCB Connector



1. +24V	DC Voltage Output (500mA)
2. +10V	DC Voltage Output (500mA)
3. A, B, RS-G(Ground)	RS-485 (Modbus RTU)
4. AIN	0-10V Analog Control (10K Potentiometer)
5. DIN	Enable , Disable (VSP control)
6. AOUT	Speed Analog Output (0~100% = 0-10V)
7. DIP Switch	Device ID setting (Max 0~255 Channel)
8. Input Voltage	3Phase 380V 50/60hz
9. Earth	Earth

► (S-CU-400-E1-CB) Data Sheet Ver_1.0 (2024.12.03)

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