

# **BHA400 Trailer-Mounted Air Start Unit**

## **Technical Specification**



BHA400 Trailer-Mounted Air Start Unit is a new type of internal combustion Air Start Unit produced by Jiangsu Baihui Aviation Technology Co., Ltd. It is primarily used as specialized airport ground equipment to provide compressed air for starting the engines or air conditioning systems of large and medium-sized aircraft. The unit adopts a homemade trailer-mounted chassis, the KTA38-P980 operational engine produced by Chongqing Cummins Engine Co., Ltd., and the air compressor produced by Wuxi Xiya Compressor Co., Ltd. The maximum air supply pressure is 43 PSI, the aircraft air supply flow rate is 400 PPM, and the maximum vehicle speed is 25 km/h.

## 1. Product Standards:

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| IATA AHM 905      | Reference materials for civil aircraft ramp support equipment  |
| IATA AHM 910      | Basic Requirements for Airport Ground Support Equipment        |
| IATA AHM 913      | Basic Safety Requirements for Airport Ground Support Equipment |
| IATA AHM 915      | Standard control                                               |
| IATA AHM 916      | Basic requirements for operating airport equipment             |
| AC-137-CA-2016-03 | Aircraft Ground Air Start Unit Testing Specifications          |
| AC-137-CA-2018-05 | Airport special vehicle chassis inspection specifications      |
| GB/T 32084-2015   | Aircraft Ground Diesel Engine Air Start Unit                   |
| GB/T15487         | Volume-type compressor flow measurement methods                |
| GB 1589           | Dimensions, axle loads, and mass limits of road vehicles       |
| GB 7258           | Technical Conditions for the Safe Operation of Motor Vehicles  |

## 2. Main performance and technical parameters:

|                                                   |                     |                                              |
|---------------------------------------------------|---------------------|----------------------------------------------|
| Chassis                                           | Manufacturer        | Jiangsu Baihui Aviation Technology Co., Ltd. |
|                                                   | Model               | Homemade                                     |
| Compressor                                        | Manufacturer        | Wuxi Xiya Compressor Co., Ltd.               |
|                                                   | Model               | WSC32SFN                                     |
| Operational Engine                                | Manufacturer        | Chongqing Cummins Engine Co., Ltd.           |
|                                                   | Model               | KTA38-P980                                   |
|                                                   | Rated Power (Kw)    | 731                                          |
|                                                   | Rated Speed (r/min) | 1500                                         |
| Maximum gas supply temperature (°C)               |                     | ≤220                                         |
| Working temperature range (°C)                    |                     | -20 to 40                                    |
| Working Voltage (V)                               |                     | 24                                           |
| Overall Dimensions (Length × Width × Height) (mm) |                     | 6800×2400×3200                               |
| Maximum supply pressure (PSI)                     |                     | 43                                           |
| Aircraft air supply flow rate (PPM)               |                     | 400                                          |
| Curb weight (kg)                                  |                     | 13400                                        |