

BHA180 Trailer-Mounted Air Start Unit

Technical Specification



BHA180 Trailer-Mounted Air Start Unit (Internal Combustion Vehicle-Mounted) is a new type of internal combustion aircraft 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 towed chassis, the QSZ13 operational engine produced by Dongfeng 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 180 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	CT0911
Operational Engine	Manufacturer	Dongfeng Cummins Engine Co., Ltd.
	Model	QSZ13
	Power (Kw)	410
	Rated Speed (r/min)	1800
Maximum gas supply temperature (°C)		≤220
Working temperature range (°C)		-20 to 40
Working Voltage (V)		24
Overall Dimensions (Length × Width × Height) (mm)		5500×2050×2600 (Tow Bar Raised)
Maximum supply pressure (PSI)		43
Aircraft air supply flow rate (PPM)		180
Curb weight (kg)		6800