

AIR START UNIT 100/180/270/300/400 PPM



- Highly reliable Deutz / Cummins / Detroit Diesel Engines.
- PLC based system, Operation through GUI touch screen.
- The airflow is automatically adjusted to cater to any type / capacity of aircraft to be started
- Demand throttle for fuel efficient operation.
- Remote fault Diagnosis - Standard Scope.
- Meets latest EPA norms.
- Walk Away - Protection and Control (Unattended Operation)
- Low Noise level.
- Meets MIL and ARP Standards.
- Online tracking / monitoring system (Optional)

The most reliable Aircraft GSE on earth from AIR+MAK

PERFORMANCE SPECIFICATIONS FOR PNEUMATIC POWER

Quality of Air	: Oil free
Flow rate	: 100/180/270/300/400 PPM (Maximum) at suction pressure 14.5 psia and suction temperature of 68°F (20°C)
Discharge pressure	: 40 psig
Discharge temperature	: 392°F (200°C) working
OAT	: -22°F to +118°F (-30°C to + 48°C)
Altitude	: Up to 3,000 ft

AC PACK (when used with onboard ECS)

Flow rate	: 100/180/270/300/400 PPM (Maximum) at suction pressure 14.7 psia and suction temperature of 77°F (25°C)
Discharge pressure	: 30 psig

Operates in any weather conditions including rain, snow, hail, fog, wind, sand & dust.

ENGINE

Make	: Cummins / Deutz / Detroit diesel / Equivalent Diesel Engine
Speed Regulation	: Through electronic governor
Electrical system	: 24 V DC

COMPRESSOR

Make	: MAK / GHH-RAND / equivalent
Type	: Oil free screw compressor with integrated step up gearbox
Flow rate	: 100/180/270/300/400 PPM at suction pressure of 14.5 psia suction temperature of 68°F (20°C)
Discharge pressure	: 40 psig at a discharge temperature of 392°F (200°C)

OTHER TYPES / RATING OF AIR START UNIT

☞ **TYPES : Self Propelled / Storage type with Integral / Seperate Charging Station**

☞ **RATINGS : 100 / 180 / 270 / 300 / 400 PPM**

** Due to continuous development, the dimensions, layout, configuration and specifications are subject to change without notice.*

Note : For more details, Please contact us.

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COUPLING SYSTEM

Coupling : Flexible with integral housing.
Regulation : PLC based electro pneumatic type.
Variable flow and a constant pressure of 2.76 bar (40 psig) are achieved by control of engine speed and the output air through a pressure regulating valve. This makes the ASU versatile and universal in its application to be able to start all aircraft requiring up to 100/180/270/300/400 PPM for starting.

MODE SETTING : Air Start / AC Pack

MONITORING

Following parameters are displayed through GUI touch screen.

- Engine oil pressure
- Engine coolant temperature
- Engine rpm
- Engine hours run
- Real time
- Delivery air pressure
- Delivery air temperature
- Battery charging current
- Fuel level

PROTECTIONS *

A. For Engine

- Low lube oil pressure shutdown
- High coolant temperature shutdown
- Over speed shutdown
- Under speed shutdown

B. For Compressor

- Low lube oil pressure shutdown
- High lube oil temperature shutdown

C. For System

- High delivery air temperature shutdown
- High delivery air pressure (relieving to atmosphere)

* Engine Shutdown is De-activated during AST mode operation

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