

AIR START UNIT

reliability and life time

GS180 to GS400 Model

The only real «on demand» air flow control from 1200 to 2000 rpm ! Save fuel, increase life time = increase your Return On Investment (ROI)

Dedicated to start Aircraft engine in case of failed Auxiliary Power Unit (APU) , Air Start Unit (ASU) is emergency equipment. As all emergency equipments, **reliability** is the most important characteristics of ASU. Effectively, during ASU operation, passengers and crew are on-board and are waiting for take-off.

To obtain highest reliability, Guinault uses the most reliable components as :

- "DEUTZ" ENGINE (MTU Detroit Diesel for GS400)
- "GHH Rand" oil free screw compressor.

Guinault Air Start units use **electronically controlled air-flow /pressure / engine rpm technology** to keep the main components (diesel engine and screw compressor) in the smoothest operating conditions, whatever the type of aircraft is started (narrow body or wide body). Engine and compressor rpm are reduced in real time to the minimum possible, **ensuring reliability, increasing lifetime, and reducing significantly noise and fuel consumption**

Guinault uses its expertise in electronic control to give a significant product advantage and also limit the obsolescence risk as Guinault manufactures its own electric/electronics components.

Key Words : Total Cost of Ownership, High efficiency, Facilitated Maintenance

Purpose : From Narrow Body Aircraft to Wide Body Aircraft (B777-300 with GE90 and A380)



Vertrieb: WEYER GmbH
www.weyer.aero
T +49 8806 / 958350
E info@weyer.aero

Hersteller:

Guinault SA
www.guinault.com
T +33 2 38 63 84 00
E info@guinault.com



	GS180	GS280
ENGINE		
<input type="checkbox"/> Brand/ Type	DEUTZ TCD2015V6	DEUTZ BF8M1015 oder TCD2015V8
<input type="checkbox"/> Power	360KW at 2100rpm	454KW bis 500KW at 2100rpm
<input type="checkbox"/> Pollution Standard	STAGE III	STAGE II/ III
GHH RAND COMPRESSOR		
<input type="checkbox"/> Air Flow/ Pressure	180ppm / 42 PSI	280ppm / 42 PSI
<input type="checkbox"/> Model	GHH Rand CD26	GHH Rand CD42
OUTPUTS		
<input type="checkbox"/> Hose	1 air hose of length 30/50 feet with ISO 2026 coupling	2 air hoses of length 30/50 feet with ISO 2026 coupling
SAFETIES		
<input type="checkbox"/> Dimensions	L 4700 x W 1940 x H 2450 mm	L 4700 x W 1940 x H 2450 mm
<input type="checkbox"/> Weight	4.300 Kg	5.100 Kg

	GS400	
ENGINE		
<input type="checkbox"/> Brand/ Type	MTU DETROIT DIESEL 12V2000	
<input type="checkbox"/> Power	783KW bei 2100rpm	
<input type="checkbox"/> Pollution Standard	Klasse II	
GHH RAND COMPRESSOR		
<input type="checkbox"/> Air Flow/ Pressure	400ppm / 42 PSI	
<input type="checkbox"/> Model	GHH Rand CD72	
OUTPUTS		
<input type="checkbox"/> Hose	3 air hoses of length 30/50 feet with ISO 2026 coupling	
SAFETIES		
<input type="checkbox"/> Dimensions	L 5625 x W 2300 x H 3200 mm	
<input type="checkbox"/> Weight	9.200 Kg	

characteristics for GS180/ 280/ 350/ 400

ENGINE	
<input type="checkbox"/> Type	Turbo Diesel – Water cooled
<input type="checkbox"/> Usable Fuel	Diesel EN590 - GNR
GHH RAND COMPRESSOR	
<input type="checkbox"/> Type	Oil Free screw compressor
<input type="checkbox"/> Cooling	Integrated oil tank with external oil cooler
<input type="checkbox"/> Air flow regulation	GUINAULT pressure/air flow PCB control board type RS686
SAFETIES	
Engine Safeties	Compressor Safeties
<input type="checkbox"/> High temperature/ Low oil pressure	<input type="checkbox"/> High output air pressure
<input type="checkbox"/> Clogged Air Filter	<input type="checkbox"/> air filter clogging-up
<input type="checkbox"/> Battery charging fault	<input type="checkbox"/> Low oil pressure
<input type="checkbox"/> Over speed	<input type="checkbox"/> High oil temperature
MAIN ASSEMBLY	
<input type="checkbox"/> Steel canopy with large access doors for maintenance	<input type="checkbox"/> Leading front axle with ball bearing
<input type="checkbox"/> Hoses storage compartment	<input type="checkbox"/> Batteries: 4 x 12V-125Ah (24VDC System)
<input type="checkbox"/> Braking when tow-bar is raised or lowered	
AVAILABLE OPTIONS	
<input type="checkbox"/> Air-Pacs mode: output air flow of 35psi for aircraft air conditioning system	
<input type="checkbox"/> Truck Mounted Air Start Unit	
<input type="checkbox"/> Winter kit including engine pre-heating for cold operation	

WEYER GmbH

Schönbachstr. 2, D-86919 Utting am Ammersee

Tel. +49/ 88 06/ 95 83 50 * Fax +49/ 88 06/ 95 83 51

E-mail: info@weyer.aero * www.weyer.aero

Geschäftsführer: Niklas Weyer, Amtsgericht Augsburg HRB 17889, UStId-Nr. DE212.297.769