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MAK design and manufacture Air Conditioner and Power Supply Combo Units. These units are suitable for Regional passenger aircraft and Code C aircraft. MAK ACUs boast of several hours of incident free operation and satisfied customers among major civil airlines and defense organizations across the world.

MAK GPCU comes with a touchscreen control panel MAK GSEM V8-C and MAK RDMS-A feature rich fleet management software which transmits live operational data to a remote computer/ mobile and alerts users in real-time of faults, alerts. With this software, users can plan maintenance schedules, ad-hoc service records, order spare parts... and much more, eliminating need for dedicated manpower per operation location.

TECHNICAL CHARACTERISTICS

MOBILE AIR CONDITIONER/28.5VDC POWER SUPPLY COMBO UNIT

GPCU MODELS	GPCU 15-400	GPCU 30-400
AIRCRAFT TYPES SERVED		
Regional Jet	⊠	
Narrow Body, B737, A319/20/21, ERJ 190-100	X	
ENGINE/GENERATOR		
Engine	Cummins/Deutz/Equivalent	Cummins/Deutz/Equivalent
Continuous Rating HP(kW)	62(46)	127(95)
Emission	Tier 3/Tier 4 Final	Tier 3/Tier 4 Final
Aspiration	Turbocharged	Turbocharged
No. of Cyliner	4	4
No. of Stroke	4	4
Fuel	Diesel	Diesel
Generator	Marathon/Stamford/Sincro/Equivalent	Marathon/Stamford/Sincro/Equivalent
AC output*	460V, 3PH, 60Hz, 4 wire	460V, 3PH, 60Hz, 4 wire
Continuous Rating kVA(kW)	72.5(58)	128(102.4)
Insulation Class	Н	Н
modulation ordeo		
COMPRESSOR	Di	10 E H-11/D'1 - /E - 1 - 1 - 1
Compressor	Bitzer/Danfoss/Equivalent	J&E Hall/Bitzer/Equivalent
Type of compressor	Hermetically sealed Scroll compressor	Semi Hermetic Screw Compressor
TR Rating as per ARI 540	24	50
Refrigerant	R410A/ R134a	R410A/ R134a
PERFORMANCE/AIR CONDITIONER		
Nominal Cooling Tons		
Information are based upon design conditions of:35°C DB/26°C WB (95°F DB/78°F WB @ Sea	15	30
Level) Note: Contact factory for other specific		
ambient conditions.		
Nominal Air flow PPM (kg/s)	75(0.57)	180(1.36)
Nominal Static Pressure Inches of WG(Pa)	13(3250)	27(6750)
Rated Heat Output (Blower+Heater) Btu/hr(kW)	137,143(40)	240,000(70)
PERFORMANCE/POWER SUPPLY		
Short circuit protected	≅	ゼ
28.5VDC	400A Continuous, 1600A peak,	400A Continuous, 1600A peak,
	Voltage regulation \pm 0.5% up to rated load	Voltage regulation ± 0.5% up to rated load
ENVIDONMENTAL		
ENVIRONMENTAL Operating Temperature	10E+0 110E0E/ 200C+0 1 E20C)	10E to 110E0E/ 200C to 1500C
Operating Temperature	-4°F to +125°F(-20°C to +52°C)	-4°F to +125°F(-20°C to +52°C)
Relative Humidity	0-100%	0-100%
Physical Dimensions Inches(mm)	L4133 x W2122 x H2055	L5044 x W2200 x H2065
Note: Width does not include lifting tackle		
Weight Lbs(kg's)	(L163 x W84 x H81)7056(3200)	(L199 x W87 x H81.3)10364(4700)



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	GPCU 15-400	GPCU 30-400
CTION		
AIR CONDITIONING	- /	- /
High Discharge Air Temperature shut down	☑	☑
Refrigerant High Pressure shut down	 ✓	 ✓
Refrigerant low Pressure shut down	☑	☑
Refrigerant High Discharge Temperature shut down	☑	☑
ow Compressor Oil Level shut down	X	 ✓
overload protection for all motors	≅	☑
IGINE		
ow fuel warning / shut down	<u> </u>	<u></u> ✓
ow Lube Oil Pressure Shut down	 ✓	☑
igh Coolant Temperature Shut down	☑	☑
ver Speed Shut down	☑	☑
w Fuel Shut down	<u> </u>	☑
ow Coolant Indication	☑	 ✓
harge Fail Indication	⊻	
r Filter Clog Indication	☑	☑
WER SUPPLY		
ver load	ᅜ	
nder/Over frequency	☑	☑
nder/Over voltage	☑	☑
nase reversal	☑	⊡
S/MONITORING		
ngine Oil Pressure	⊠	
gine Coolant Temperature		<u> </u>
ngine RPM	☑	<u> </u>
el Level		☑
attery Voltage	☑	☑
tput Air Temperature	<u> </u>	☑
t output Air Temperature		✓
utput Pressure		☑
ompressor Discharge Temperature	<u></u>	☑
ngine Hours Run	<u> </u>	
gino rioura riuri		☑
	□	17/
aintenance Shedule	<u> </u>	<u></u> 전

GPCU MODELS OPTIONAL FEATURES

GPCU 15-400

GPCU 30-400

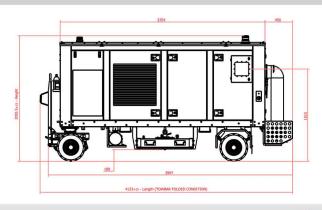
Truck Mounted(Contact Factory)	⊻	☑
Shore Power Cable & Switch	⊠	⊻
DC Cable	⊻	⊻
Special Paint Scheme	☑	⊻
Winter Kit	区	 The state of the state</td

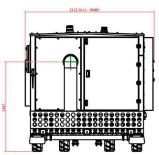
SALIENT FEATURES

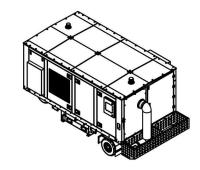
- Diesel engines from Deutz/Cummins equivalent conforming to latest EPA/Euro emission norms
- Electric driven models
- Automatic temperature control
- No noise level
- Meets MIL, AHM & ARP standards

- Digital control system with touchscreen panel (MAK GSEM V8-C)
 - Interactive GUI visible under all weather conditions
 - @ Graphical representation of operational data
 - [™] Fault log chart & troubleshooting guide
- MAK RDMS Remote Diagnosis and Monitoring System (RDMS)

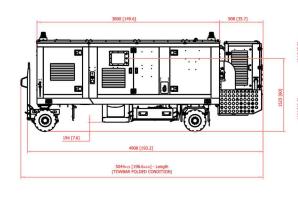
GPCU 15-400

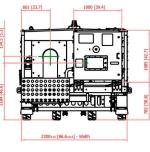


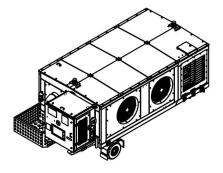




GPCU 30-400







For detailed technical specifications or any other queries please contact us

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