

## BLEED

**CAUTION**, do not use HP GND air with APU bleed

- Regulated pressure 45 +/- 5 psi
- Leak detection
  - single loop for APU and system ducts
  - double loop for wing ducts

## AVIONICS VENTILATION

**CONFIGURATIONS:**  
**CLOSED**, on GND (24°C<math><\/math> to 32°C) or FLT (24°C to 35°C)  
**INTERMEDIATE** (24°C to 32°C) then EXTRACT VLV partially opens  
**OPEN**, on GND (24°C to 32°C)  
**SMOKE CONFIG**

FAN SPEED (NOM/JLP-S)  
 H 2 F > 40°C  
 LO 2 F T = 35°C

ENG AVICE VALVE  
 ENG 1 (DCU) (SHEED)  
 ENG 2 (DCU)

FAV AIR VALVE  
 ENG 1 (DCU) (SHEED)  
 ENG 2 (DCU)

BLEED MONITORING COMPUTER  
 BMC 1 (DCU) (SHEED)  
 BMC 2 (DCU)

STARTER VALV  
 ENG 1 (DCU) (SHEED)  
 ENG 2 (DCU)

WING ANTI ICE VALV  
 (DCU) (SHEED)

WING SLATS 3,4 & 5 are equipped

WING ANTI ICE VALV  
 (DCU) (SHEED)

**CAUTION**, do not use GND AIRCOND air with air from packs simultaneously

PACK 1 FLOW CONTROL VALVE (DCU) (SHEED)  
 PACK 1 CTL (DCU) (SHEED)

PACK 2 FLOW CONTROL VALVE (DCU) (SHEED)  
 PACK 2 CTL (DCU) (SHEED)

PACK 1 AIR COND SYS 1 CTL (DCU) (SHEED)

PACK 2 AIR COND SYS 2 CTL (DCU) (SHEED)

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PACK 1 AIR COND SYS 1 CTL (DCU) (SHEED)

## AIRCOND

PACK CTL  
 From: tail to wing, tail not supported  
 Sec: tail to ECAM signal loop  
 Both: tail to 3-35°C in 2° by 20°C in 1°  
 From: tail to 24°C for pack 1  
 Sec: tail to no effect  
 Both: tail to 20°C pack 2  
 15°C pack 2

PACK 1 AIR COND SYS 1 CTL (DCU) (SHEED)

PACK 2 AIR COND SYS 2 CTL (DCU) (SHEED)

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## PRESSURIZATION

2 safety valves (press 8.5psi or -25psi)  
 FAN AIR ON and 2nd stage, out, vlv 50% opens  
 (press 10psi or -25psi)

APFD (NOM/JLP-S)  
 Depressures in case of residual press on GND

## FIRE PROTECTION & CARGO VENT

- ★ SMOKE DETECTORS
- ★ FIRE DETECTORS
- Ⓢ FIRE BOTTLES

**ELECTRICAL SUPPLY**  
 ENG 1 loop A (DCU) (SHEED), loop B (DCU) (SHEED)  
 ENG 2 loop A (DCU) (SHEED), loop B (DCU) (SHEED)  
 APU loop A (DCU) (SHEED), loop B (DCU) (SHEED)  
 ENG 1&2 STL 1 (NOM/JLP-S) (SHEED) 1 (NOM/JLP-S) (SHEED)  
 ENG 1&2 STL 2 (NOM/JLP-S) (SHEED) 2 (NOM/JLP-S) (SHEED)  
 APU STL (NOM/JLP-S) (SHEED) 1 (NOM/JLP-S) (SHEED)  
 APU STL (NOM/JLP-S) (SHEED) 2 (NOM/JLP-S) (SHEED)  
 APU auto extinguish (DCU) (SHEED)

## APU

**LIMITATIONS**  
 RPM max: 90%, max 92% (auto shut down)  
 running EGT max 660°C (25sec) or 750-742 start EGT max 900°C = 25000R  
 start EGT max 960°C = 25000R  
 LOW OIL LEVEL: max 15 hrs APU max start cycles: 5, then 3, then 3, 80min envelope  
 START with AC power up to 36000R  
 START with EMER ELEC power up to 25000R  
 BLEED ON 2 packs max 15000R, 1 pack max 20000R  
 BLEED ON for engine start max 20000R  
 BLEED for WING AVICE not permitted  
 APU FUEL FLOW = 130 kg/hr



APU LP VALV (DCU) (SHEED)  
 APU PUMP (DCU) (SHEED)

APU STARTER SLATS

APU BLEED VALV (DCU) (SHEED)

APU PUMP (DCU) (SHEED)

APU STARTER SLATS

APU BLEED VALV (DCU) (SHEED)

APU PUMP (DCU) (SHEED)

## FUEL A319/A320

TOTAL TANKS CAPACITY (den 0.785kg/l)  
 18728kg / 19004kg (JLP-S)

**OUTER to INNER TRANSFER**  
 XFR valves open when 2000R lower - 750kg  
 1-2 only with Outer TK full  
 Automatic XFR after landing  
 In event, manual DEFUEL panel (PWR ON) or transfer via DEFUELOVR valve

FOR CH1 (DCU) (SHEED) CH2 (DCU)

XFR VALVES 1 (DCU) (SHEED) 2 (DCU)

DEFUEL VALVE (DCU) (SHEED) (refueling on batteries with emergency)

FUEL IMBALANCE A319/A320  
 WING TK Fuel max 15000kg  
 INNER TK 4300kg max 15000kg  
 INNER TK 2350kg max 2350kg  
 no limitations below 2350kg  
 OUTER TK max 600kg, if OUTER+INNER same  
 or 500kg of empty OUTER equal or higher (up to 30 of opposite INNER)

LP VALV (DCU) (SHEED) MOT 1 (DCU) MOT 2 (DCU)

INNER TANKS 2 x 5435kg\* 2 x 5573kg (JLP-S)

OUTER TANKS 2 x 6534kg

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 INNER TK 4300kg max 15000kg  
 INNER TK 2350kg max 2350kg  
 no limitations below 2350kg  
 OUTER TK max 600kg, if OUTER+INNER same  
 or 500kg of empty OUTER equal or higher (up to 30 of opposite INNER)

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 INNER TK 2350kg max 2350kg  
 no limitations below 2350kg  
 OUTER TK max 600kg, if OUTER+INNER same  
 or 500kg of empty OUTER equal or higher (up to 30 of opposite INNER)

CENTER TANK 6475kg

CENTER TANK 6437kg

FUEL NOZZLES ENG1 (DCU) (SHEED) ENG2 (DCU) (SHEED)

FUEL METERING VALV (DCU) (SHEED)

## ENGINE

A319: CFM56-3B2 23500R  
 A320: CFM56-3B2 27000R  
 A321: CFM56-3B2 27000R  
 N1 100% = 9000 rpm  
 N2 100% = 14400 rpm  
 TOGA EGT max 950°C (1-1000R)  
 ENG 50% above base 2° C for 60s  
 START 1000-1400 2000 3000 4000 5000

FADEC ENG1&2 CH1 (DCU) (SHEED) CH2 (DCU) (SHEED)  
 ENG1 CH1 (DCU) (SHEED) ENG2 CH1 (DCU) (SHEED)  
 ENG1 CH2 (DCU) (SHEED) ENG2 CH2 (DCU) (SHEED)

MONITOR ENG1&2 A320 (DCU) (SHEED) or (DCU) (SHEED)  
 ENG1 B (DCU) (SHEED) ENG2 B (DCU) (SHEED)

CENTER to WING TRANSFER  
 Valve opens and wing tank is full then wing tank 250kg are used and 100kg are transferred from CTR TK  
 Gravity transfer from CTR TK only possible if = 2000kg in center tank (these are trapped)

A321 FUEL IMBALANCE  
 WING TK Fuel max 15000kg  
 WING TK 4000kg max 15000kg  
 WING TK 2350kg max 2350kg  
 no limitations below 2350kg

A321 FUEL IMBALANCE  
 WING TK Fuel max 15000kg  
 WING TK 4000kg max 15000kg  
 WING TK 2350kg max 2350kg  
 no limitations below 2350kg

\* all others from type

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# Airbus System Guide

**Rosina Ehmann**



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