

## BLEED

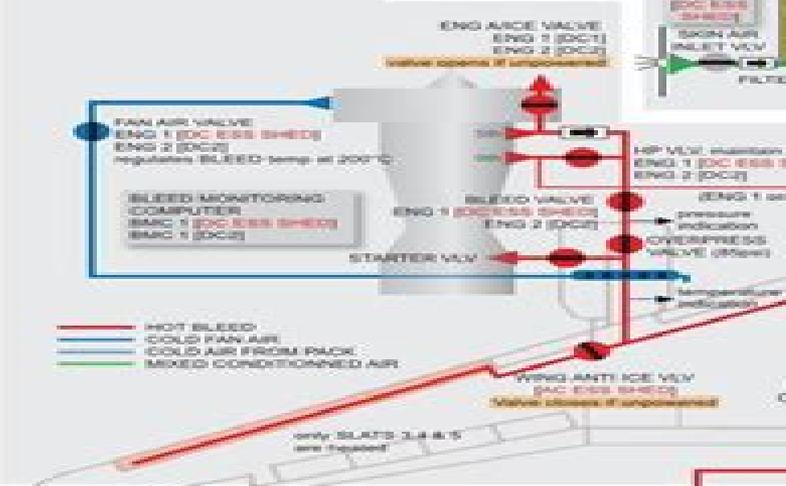
**CAUTION**, do not use HP GND air with APU bleed

- 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/75°F to 32°C/90°F) or FLT (24°C/75°F to 35°C/95°F)  
**INTERMEDIATE** (24°C/75°F to 29°C/85°F) then EXTRACT VLV partially opens  
**OPEN**, on GND (24°C/75°F to 32°C/90°F)  
**SMOKE CONFIG**

FAN SPEED (NOM/JLP-S)  
 H 2 F 1 > 40°C  
 LO 2 F 1 > 35°C



- HOT BLEED
- COLD FAN AIR
- COLD AIR FROM PACK
- MIXED CONDITIONED AIR

## APU

**LIMITATIONS**  
 RPM max: 90%, max 927% (auto shut down)  
 running EGT max 660°C (5sec) or 750-742 start EGT max 900°C > 25000R  
 start EGT max 960°C > 25000R  
 LOW OIL LEVEL: < 15 lbs APU max start cycles: 5, then 3, then 3, 60min 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 ANTI ICE not permitted  
 APU FUEL FLOW = 130 kg/hr

## FUEL A319/A320

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



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

**FUEL IMBALANCE A319/A320**  
 WING TK Fuel max 15000kg  
 INNER TK 4300kg max 15000kg  
 INNER TK 2250kg max 2250kg  
 no limitations below 2250kg  
 OUTER TK max 600kg, if OUTER+INNER same or 50% of empty OUTER equal or higher (up to 30 of opposite INNER)

**FUEL TEMPERATURE**  
 JET A1 max -43°C max +54°C  
 JET A max -30°C max +54°C

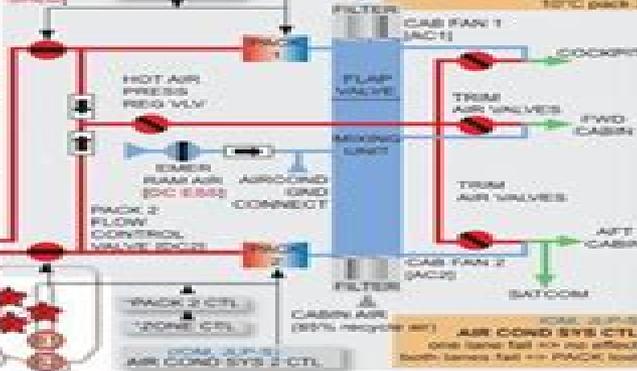
\* all others from type

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

PACK 1 FLOW CONTROL VALVE (ENG 1 (DCU))  
 PACK 2 FLOW CONTROL VALVE (ENG 2 (DCU))

## AIRCOND

**PACK CTL**  
 From fail => neg. test reported  
 Sec fail => ECAM signal test  
 Both fail => 3-30°C in A\* by active vlv  
**ZONE CTL**  
 From fail => 24°C for pack 1  
 Sec fail => no effect  
 Both lanes fail => pack 2 15°C pack 2

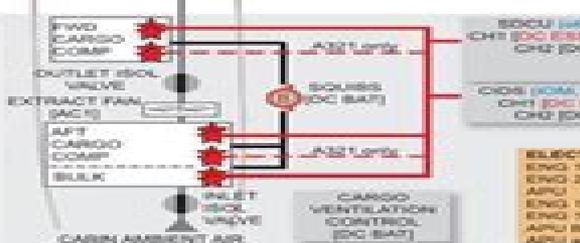


## PRESSURIZATION

2 safety valves (press 8.5psi or -25psi)  
 FAN AIR ON and JLP-1 test, outfl. vlv 50% opens  
 (press 10psi) => 10000 +/- 2500R  
 APU (NOM. JLP-S)  
 Depressures in case of residual press on GND

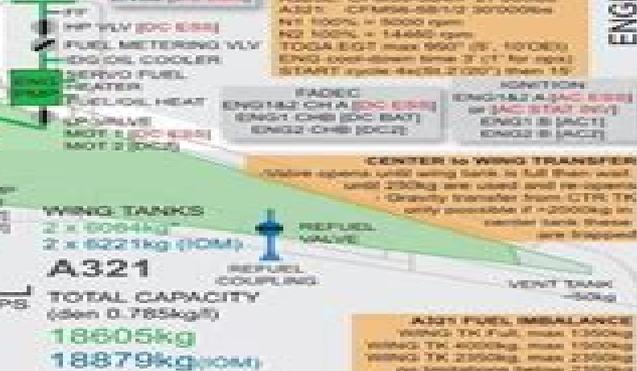
## FIRE PROTECTION & CARGO VENT

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



**ELECTRICAL SUPPLY**  
 ENG 1 loop A (DCU), loop B (DCU)  
 ENG 2 loop A (DCU), loop B (DCU)  
 APU loop A, B (DCU BATT)  
 ENG 1&2 BTL 1 (NOM/JLP-S) 1 squib B (HOT)  
 ENG 1&2 BTL 2 (NOM/JLP-S) 2 squib B (DCU)  
 APU BTL 1 (HOT) 1 squib B (DCU BATT)  
 APU BTL 2 (HOT) 2 squib B (DCU BATT)  
 APU auto extinguish (DCU BATT)

## ENGINE



**FUEL NOZZLES** ENG1 (DCU BATT) ENG2 (DCU BATT)

**FUEL METERING VLV** HP VLV (DCU BATT)

**FUEL OIL COOLER** FUEL OIL HEAT

**SERVOPUMP** FUEL OIL HEAT

**FUEL OIL HEAT** FUEL OIL HEAT

**START** START (NOM/JLP-S) then 15'

**MONITOR** ENG1&2 A (DCU) or (ACU) START (ACU) ENG1 B (ACT) ENG2 B (ACT)

**CENTER to WING TRANSFER**  
 Valve opens and wing tanks full then used 250kg are used and re-opens  
 Gravity transfer from CTR TK only possible if > 2000kg in center tanks (these are strapped)

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

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# Airbus System Guide

**Brij N. Agrawal, Max F. Platzer**



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Airbus A350 - Systems Guide for Pilots Faraz Sheikh, 2022-02-22 This is a systems guide for Pilots training or transitioning onto the Airbus A350 series aircraft. It covers various aircraft systems with detailed images for you and information for training. The 24 chapters included include 1 General 2 Air systems 3 Automatic flight systems 4 Flight management system 5 Communications 6 Electrical system 7 Fire Smoke protections 8 Flight Controls and Slats Flaps 9 Fuel system 10 Hydraulic system 11 Ice rain protection 12 Controls display systems 13 Recording systems 14 Landing Gear 15 Lights 16 Navigation 17 Oxygen system 18 Avionics network IMA 19 Onboard maintenance system 20 Information systems 21 Air traffic control communication systems 22 APU 23 Doors 24 Engines. The book is for training purposes ONLY NOT FOR OPERATIONAL USE.

Airbus A320 Systems Displays Manual Faraz Sheikh, 2022-03-28 This is a technical 117 pages guide for the Airbus A320 Pilot or Cadet to study an in depth breakdown of the various systems pages including the Engine Warning Display presented in the flightdeck. The systems displays include CRUISE ENGINE BLEED CABIN PRESSURE ELECTRIC HYDRAULICS FUEL APU AIR CONDITIONING DOOR OXYGEN WHEELS and FLIGHT CONTROLS. We have also added a description of the Slats and Flaps part displayed normally on the EWD accessible via the Flight Controls chapter. The book comes detailed with high resolution system screen images including images for the various parameters and components which are displayed on the system screens. It is compatible for the A320 CEO and NEO variants. This guide is created for TRAINING PURPOSES ONLY and is NOT to be used for real OPERATIONS.

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