

BLEED

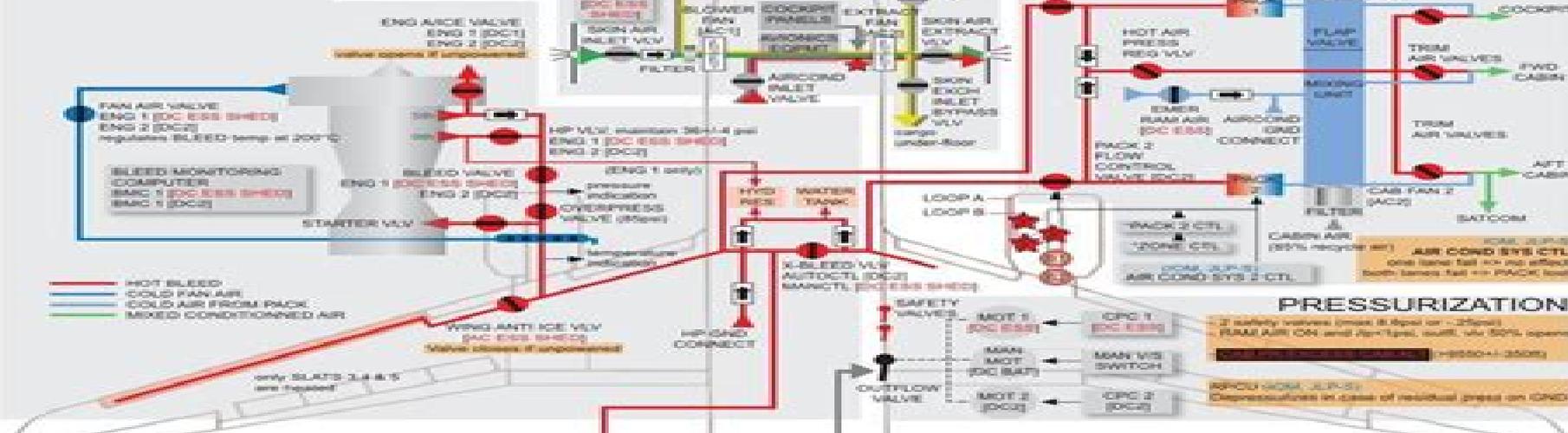
CAUTION: do not use HP GND air with APU bleed

- 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 (32°C to 35°C)
- SMOKE CONFIG:**



BLEED MONITORING COMPUTER
 BMC 1 (DCU ESS SHED)
 BMC 2 (DCU)

STARTER VALV
 ENG 1 (DCU ESS SHED)
 ENG 2 (DCU)

WING ANTI ICE VALV
 (DCU ESS SHED)
 Valve closes if unpowered

WING SLATS 3, 4 & 5
 are heated

LEGEND:
 HOT BLEED
 COLD AIR FROM PACK
 MIXED CONDITIONED AIR

APU
 APU BLEED VALVE
 APU STARTER VALV
 APU LP VALV (DCU BATT) (HOT)
 APU PUMP (DCU BATT) (DCU ESS SHED)

AVIONICS VENTILATION
 AIR FROM AVIONICS BAY
 SKIN EXCH OUTLET BYPASS VALV
 SKIN AIR INLET VALV
 FILTER
 BLOWER (AC)
 EXTRACT FAN (AC)
 SKIN AIR EXTRACT VALV
 SKIN EXCH INLET BYPASS VALV
 SKIN EXCH ISOL VALV
 SKIN EXCH ISOL VALV
 SKIN EXCH ISOL VALV

HYD PUMP
 WATER TANK
 LOOP A
 LOOP B
 N-BLEED VALV AUTODCTL (DCU) (MANCTL) (DCU ESS SHED)

SAFETY VALVES
 MOT 1 (DCU ESS)
 MOT 2 (DCU)
 MAN VIS SWITCH
 OPC 1 (DCU ESS)
 OPC 2 (DCU)

OUTFLOW VALVE

EXTRACT FAN (AC)
 APV CARGO COMP
 BULK
 INLET ISOL VALVE
 CARGO VENTILATION CONTROL (DCU BATT)

SDCU (DCU)
 CH1 (DCU ESS SHED)
 CH2 (DCU)
 CH3 (DCU ESS)
 CH4 (DCU)

ELECTRICAL SUPPLY
 ENG 1 loop A (DCU ESS), loop B (DCU)
 ENG 2 loop A (DCU), loop B (DCU)
 APU loop A (DCU BATT)
 ENG 1&2 STL 1 (DCU) (HOT) 1, 2 (DCU) (HOT)
 ENG 1&2 STL 2 (DCU) (HOT) 1, 2 (DCU) (HOT)
 APU STL (DCU BATT) (HOT) 1, 2 (DCU) (HOT)
 APU auto extinguish (DCU BATT)

OUTER TANKS
 2 x 6534kg

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

OUTER TANKS
 2 x 6534kg

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

REFUEL VALVE
 (DCU) (refueling on batteries with emergency)

REFUEL COUPLING

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 500kg if empty OUTER equal or higher (up to 30 of opposite INNER)

TANK PUMPS
 A320 A320
 PUMP LH1 (AC1) (DCU)
 PUMP LH2 (AC2) (DCU)
 PUMP CTR1 (AC1) (DCU)
 PUMP CTR2 (AC2) (DCU)

WING PUMPS
 PUMP 1 (AC1) (DCU)
 PUMP 2 (AC2) (DCU)
 PUMP 3 (AC1) (DCU)
 PUMP 4 (AC2) (DCU)

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

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* all others from type

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Schematic User Guide

Yicheng Fang



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