

BLEED

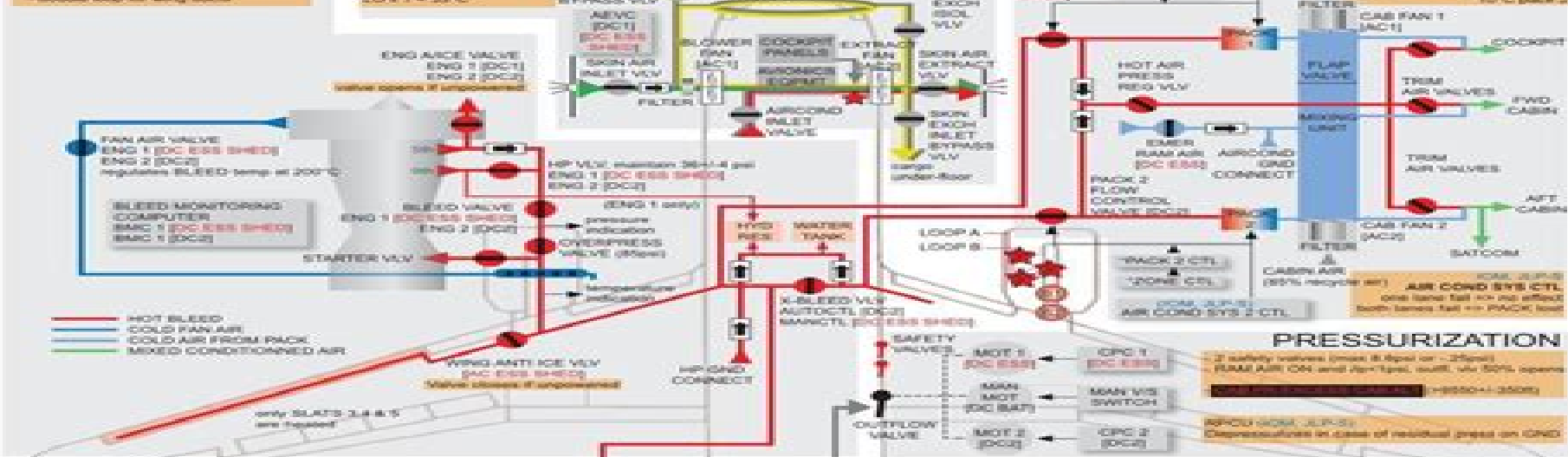
CAUTION, do not use HP GND air with APU bleed

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

AVIONICS VENTILATION

CONFIGURATIONS:
CLOSED: on GND (max 45°C in FLT (max 52°C/35°C)
INTERMEDIATE: if (max 32°C/35°C) then EXTRACT VLV partially opens
- OPEN: on GND (max 45°C/35°C)
- SMOKE CONFIG

FAN SPD (NOM JLP-S)
H if T > 40°C
LO if T > 35°C



APU

LIMITATIONS:
RPM max: 95%, max 102% (auto shut down)
running EGT max 660°C (Basic) or 750-742
start EGT max 900°C > 25000R
start EGT max 950°C > 25000R
LOW OIL LEVEL: < 15 lbs APU max
start cycles: 5, then 5, then 5, 60min
Envelope:
START with AC power up to 30000R
START with EMER BLEED start 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 to INNER TRANSFER
- XFR valves open when (POWER) lower ~ 750kg
- F/O only with Outer TK full
- Automatic XFR after landing
(in event, master REFUEL panel PWR ON)
or transfer via DEFUEL/XFR valve

FOR CH1 [DC ESS SHED] CH2 [DC]

OUTER TANKS 2 x 5534kg

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 5000kg, if OUTER+INNER same
or (WING) of empty OUTER equal or higher (up to 30 of
opposite INNER)

refueling / defueling lines
bleeding lines

LP VALVE MOT 1 [DC] MOT 2 [DC]

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

PUMP LH1 [AC1] [AC2] [DC1] [DC2]
PUMP LH2 [AC1] [AC2] [DC1] [DC2]
PUMP CTRG [AC2] [DC2]

DEFUEL XFR VALVE

REFUEL VALVE [DC2] refueling on
batteries with
(ignoring)

REFUEL COUPLING

TANK PUMPS

FUEL TEMPERATURE
JET A1 max -43°C max +54°C
JET A max -36°C max +54°C

CENTER TANK 5437kg

X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VALVE

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

REFUEL VALVE

REFUEL COUPLING

VENT TANK ~50kg

TOTAL CAPACITY (den 0.785kg/l)
18605kg
18879kg (NOM)

WING PUMPS

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

VENT TANK ~50kg

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

PACK 1 FLOW CONTROL VALVE [DC ESS SHED]
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PACK 2 FLOW CONTROL VALVE [DC2]
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AIRCOND

PACK CTL
From fail => eng, not recommended
Both fail => ECAM signal lost
Both fail => 5-30°C in A
for active vlv
ENGINE CTL
From fail => 24°C for packs
Both fail => 20°C pack 1
10°C pack 2

PACK CTL
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Both fail => 5-30°C in A
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PRESSURIZATION

2 safety valves (press 8.5psi or ~25psi)
- FUEL AIR ON and JLP-1 fuel, fuel, vlv 50% opens
- PRESSURIZATION ~ 8500ft ~ 3500ft

APU (NOM JLP-S)
Depressurization in case of residual press on GND

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ENGINE

A319: CFM56-5B/2 23500RPM
A320: CFM56-5B/2 27000RPM
A321: CFM56-5B/2 27000RPM
N1 100% = 3000 rpm
N2 100% = 14400 rpm
TOGA EGT max 950°C / 5-10000
ENG cool-down time 2' 0" for N2
START (idle) 4000/2000' max 15'

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