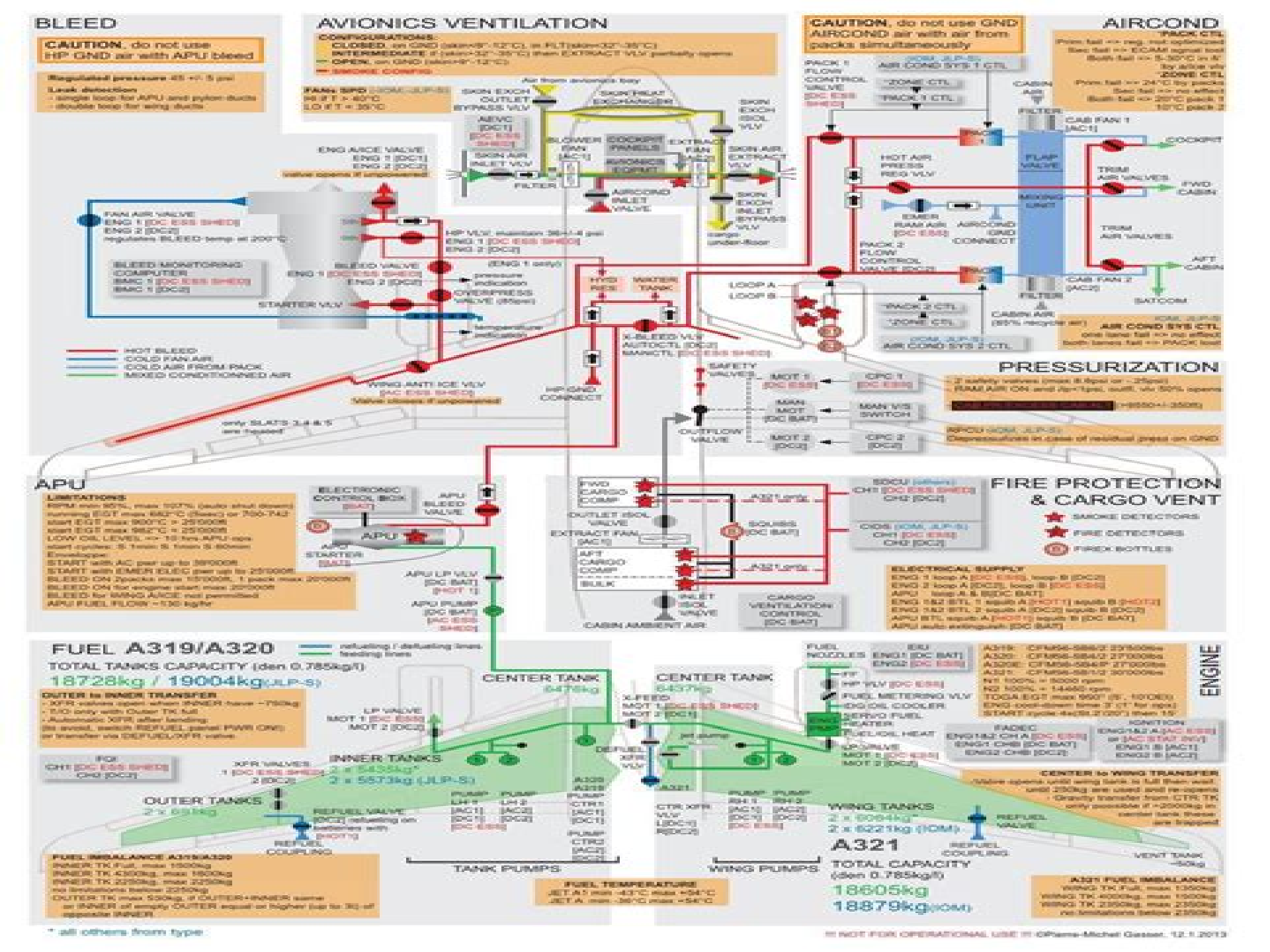
BLEED
CAUTION, do not use HP GND air with APU bleed
Regulated pressure 45 +/- 5 psi
Leak detection
- single loop for APU and pylon ducts
- double loop for wing ducts
AVIONICS VENTILATION
CONFIGURATIONS:
CLOSED, on GND (ASH<9°, 12°C), in FLT(ASH<32°, 35°C)
INTERMEDIATE, if (ASH>32°, 35°C) then EXTRACT VLV partially opens
OPEN, on GND (ASH>9°, 12°C)
SMOKE CONFIG
FANs SPD (COM, JLP-S)
HI if T > 40°C
LO if T < 35°C
SKIN EXCH OUTLET BYPASS VLV
AEVC [DC1]
SKIN AIR INLET VLV
BLOWER FAN [AC1]
COCKPIT PANELS
AVIONICS COMPT
EXTRACT FAN [AC2]
SKIN EXCH SOL VLV
SKIN AIR EXTRACT VLV
SKIN EXCH INLET BYPASS VLV
FILTER
AIRCOND INLET VALVE
ENG A/COND VALVE
ENG 1 [DC1]
ENG 2 [DC2]
valve opens if unpressurized
FAN AIR VALVE
ENG 1 [DC ESS SHED]
ENG 2 [DC2]
regulates BLEED temp at 200°C
BLEED MONITORING COMPUTER
BMC 1 [DC ESS SHED]
BMC 1 [DC2]
BLEED VALVE
ENG 1 [DC ESS SHED]
ENG 2 [DC2]
pressure indication
OVERPRESS VALVE (85psi)
STARTER VLV
temperature indication
HP VLV, maintain 36+/-4 psi
ENG 1 [DC ESS SHED]
ENG 2 [DC2]
(ENG 1 only)
HYD RES
WATER TANK
X-BLEED VLV
AUTOCTL [DC2]
MANCTL [DC ESS SHED]
HOT BLEED
COLD FAN AIR
COLD AIR FROM PACK
MIXED CONDITIONNED AIR
WING ANTI ICE VLV
[AC ESS SHED]
Valve closes if unpressurized
only SLATS 3,4 & 5 are heated
HP GND CONNECT
AIRCOND
CAUTION, do not use GND AIRCOND air with air from packs simultaneously
PACK 1 FLOW CONTROL VALVE [DC ESS SHED]
AIR COND SYS 1 CTL
ZONE CTL
PACK 1 CTL
CABIN AIR
FILTER
CAB FAN 1 [AC1]
COCKPIT
HOT AIR PRESS REG VLV
FLAP VALVE
MIXING UNIT
TRIM AIR VALVES
FWD CABIN
EMER RAM AIR [DC ESS]
AIRCOND GND CONNECT
PACK 2 FLOW CONTROL VALVE [DC2]
AFT CABIN
CAB FAN 2 [AC2]
SATCOM
PACK 2 CTL
ZONE CTL
CABIN AIR (85% recycle air)
COM, JLP-S: AIR COND SYS 2 CTL
AIRCOND
PACK CTL
Prim fail => neg. not optimized
Sec fail => ECAM signal lost
Both fail => 5-30°C in 4'
by area via ZONE CTL
Prim fail => 24°C by packs
Sec fail => no effect
Both fail => 20°C pack 1
10°C pack 2
COM, JLP-S: AIR COND SYS CTL
one lane fail => no effect
both lanes fail => PACK lost
PRESSURIZATION
- 2 safety valves (max 8.6psi or ~ 25psi)
- RAM AIR ON and dp<1psi, outflo. vlv 50% opens
(~8550+/-350ft)
APU (COM, JLP-S):
Depressurizes in case of residual press on GND
SAFETY VALVES
MOT 1 [DC ESS]
CPC 1 [DC ESS]
MAN MOT [DC BAT]
MAN V/S SWITCH
OUTFLOW VALVE
MOT 2 [DC2]
CPC 2 [DC2]
APU
LIMITATIONS:
RPM min 95%, max 107% (auto shut down)
running EGT max 682°C (Sea) or 700-742
start EGT max 900°C = 2S1000S
start EGT max 982°C = 2S1000S
LOW OIL LEVEL => 10 hrs APU ops
start cycles: S-1min/ S-1min/ S-60min
Emergen
START with AC pwr up to 38K000S
START with EMER ELEC pwr up to 25K000S
BLEED: ON 2packs max 15K000S, 1 pack max 20K000S
BLEED: ON for engine start max 20K000S
BLEED for WING A/ICE not permitted
APU FUEL FLOW ~130 kg/hr
ELECTRONIC CONTROL BOX [BAT]
APU BLEED VALVE
APU
APU STARTER [BAT]
APU LP VLV [DC BAT] [HOT 1]
APU PUMP [DC BAT] [AC ESS SHED]
FIRE PROTECTION & CARGO VENT
SMOKE DETECTORS
FIRE DETECTORS
FIREX BOTTLES
FWD CARGO COMP
OUTLET /SOL VALVE
EXTRACT FAN [AC1]
AFT CARGO COMP
BULK
SOUSSS [DC BAT]
SDCU (ARMA) CH1 [DC ESS SHED] CH2 [DC2]
CIDS (COM, JLP-S) CH1 [DC ESS] CH2 [DC2]
INLET /SOL VALVE
CABIN AMBIENT AIR
CARGO VENTILATION CONTROL [DC BAT]
ELECTRICAL SUPPLY
ENG 1 loop A [DC ESS], loop B [DC2]
ENG 2 loop A [DC2], loop B [DC ESS]
APU - loop A & B [DC BAT]
ENG 1&2 STL 1 squib A [HOT1] squib B [HOT2]
ENG 1&2 STL 2 squib A [DC2] squib B [DC2]
APU STL squib A [HOT1] squib B [DC BAT]
APU auto extinguish [DC BAT]
FUEL A319/A320
refueling / defueling lines
feeding lines
TOTAL TANKS CAPACITY (den 0.785kg/l)
18728kg / 19004kg(JLP-S)
OUTER to INNER TRANSFER
- XFR valves open when INNER have ~750kg
- S/D: only within Outer TK full
- Automatic XFR after landing
(to avoid, switch REFUEL panel PWR ON)
or transfer via DEFUEL/XFR valve
FQI
CH1 [DC ESS SHED]
CH2 [DC2]
XFR VALVES
1 [DC ESS SHED]
2 [DC2]
OUTER TANKS
2 x 693kg
REFUEL VALVE [DC2] refueling on batteries with [HOT1]
REFUEL COUPLING
INNER TANKS
2 x 5435kg*
2 x 5573kg (JLP-S)
CENTER TANK
6476kg
LP VALVE
MOT 1 [DC ESS]
MOT 2 [DC2]
DEFUEL XFR VLV
A320 A319 PUMP CTR1 [AC1] [DC1]
PUMP CTR2 [AC2] [DC2]
PUMP LH1 [AC1] [DC1] [DC ESS]
PUMP LH2 [AC2] [DC2]
TANK PUMPS
CENTER TANK
6437kg
X-FEED MOT 1 [DC ESS SHED]
MOT 2 [DC1]
jet pump
CTR XFR VLV L[DC1] R[DC2]
A321
PUMP RH1 [AC1] [DC1] [DC ESS]
PUMP RH2 [AC2] [DC2]
WING PUMPS
WING TANKS
2 x 5084kg*
2 x 6221kg (IOM)
A321
TOTAL CAPACITY (den 0.785kg/l)
18605kg
18879kg(IOM)
REFUEL VALVE
REFUEL COUPLING
VENT TANK ~50kg
FUEL IMBALANCE A319/A320
INNER TK Full, max 1500kg
INNER TK 4300kg, max 1600kg
INNER TK 2250kg, max 2250kg
no limitations below 2250kg
OUTER TK max 530kg, if OUTER+INNER same or INNER off empty OUTER equal or higher (up to 3t) of opposite INNER
FUEL TEMPERATURE
JET A1 min -43°C max +54°C
JET A min -36°C max +54°C
A321 FUEL IMBALANCE
WING TK Full, max 1500kg
WING TK 4500kg, max 1500kg
WING TK 2350kg, max 2350kg
no limitations below 2350kg
ENGINE
FUEL NOZZLES
EEU ENG1 [DC BAT] ENG2 [DC ESS]
HP VLV [DC ESS]
FUEL METERING VLV
OIL/FUEL COOLER
SERVO FUEL HEATER
FUEL/OIL HEAT EXCH
LP VALVE MOT 1 [DC ESS] MOT 2 [DC2]
FADEC ENG1&2 CH A [DC ESS] ENG1 CHB [DC BAT] ENG2 CHB [DC2]
IGNITION ENG1&2 A [AC ESS] or [AC ESS] [HOT] ENG1 B [AC1] ENG2 B [AC2]
CENTER to WING TRANSFER
Valve opens until wing tank is full then wait until 230kg are used and re-opens
- Gravity transfer from CTR TK only possible if ~2000kg on center tank, these are trapped
* all others from type
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Schematic User Guide

Jiyuan Zhang

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