Hoosier Comfort Consultants
Smart solutions for better comfort

FIELD SITE SHEET
Return the completed sheet with photos of the data plate, failed part and problem area. Subject: "Site Sheet"

FURNACE & AIR CONDITIONER

Split system | gas heat, electric cooling

JOB INFORMATION

Complete every box. Use N/A if it doesn't apply.

Brand			Reason for visit				Date of visit
ICP	Allied	Other	Start-up	Service	Warranty	Maint.	

Homeowner / customer	Jobsite address	City, State, ZIP	Phone

Technician	Dealer company	Dealer phone	Installed	Failure date	Claim / RA #

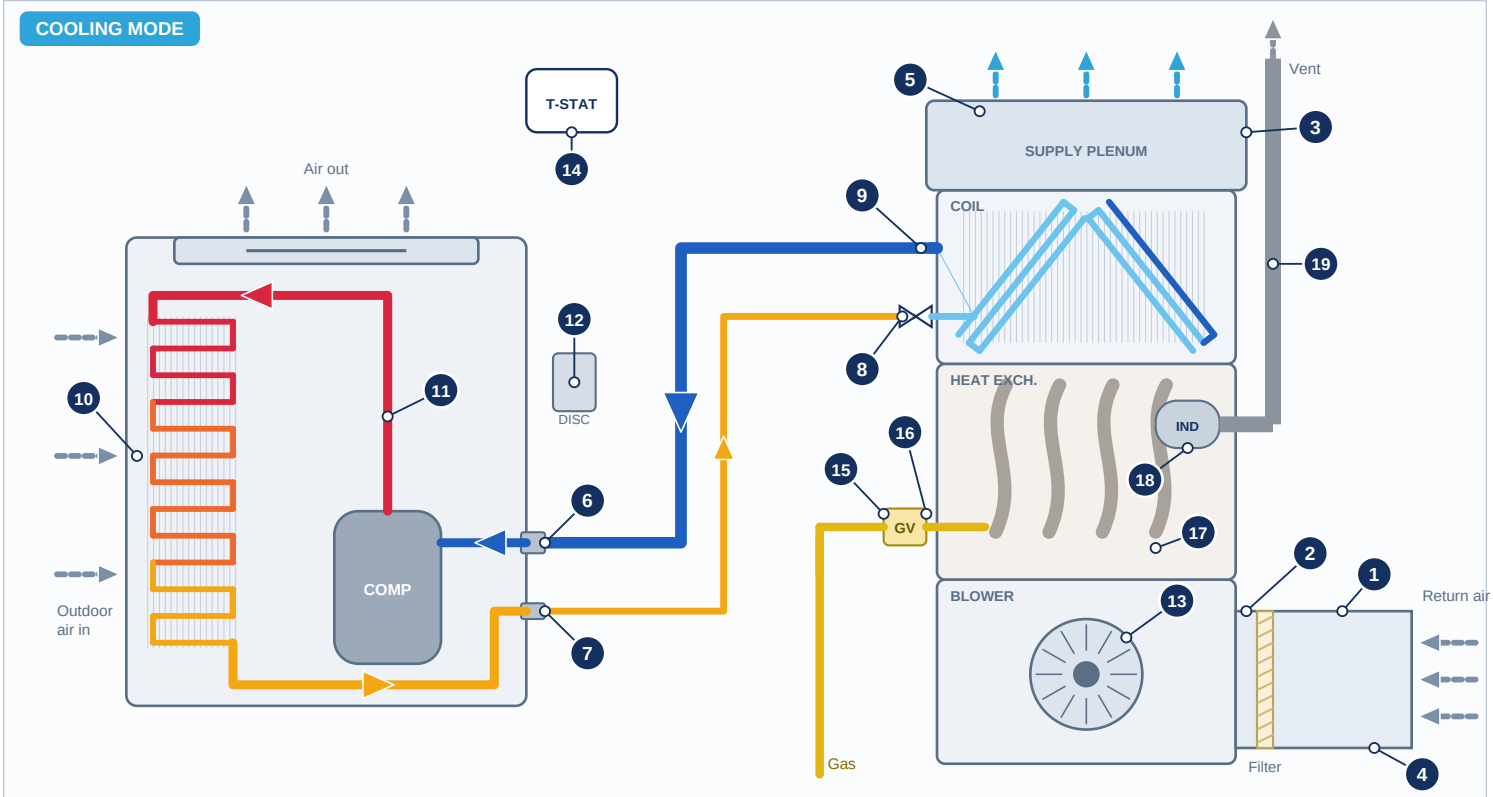
Complaint / reason for visit

EQUIPMENT

COMPONENT	Manufacturer	Model number	Serial number	Size / tons / BTU
Outdoor unit (AC)				
Furnace				
Indoor coil				
Thermostat				

SYSTEM DIAGRAM & MEASUREMENT POINTS

Refrigerant shown in cooling mode



High-pressure vapor (hot gas) | Condensing | High-pressure liquid | Low-pressure liquid + vapor | Low-pressure vapor (suction)

1. Return static, before filter
2. Return static, after filter
3. Supply static, after coil
4. Return air DB / WB
5. Supply air DB / WB
6. Suction pressure & line temp
7. Liquid pressure & line temp
8. Liquid temp at TXV / piston
9. Coil outlet temp (TXV bulb)
10. Outdoor air entering coil
11. Discharge line temp
12. Outdoor volts & amps
13. Blower volts & amps
14. Thermostat call (R-C, Y, W)
15. Gas inlet pressure
16. Manifold pressure
17. Flame sensor (µA)
18. Inducer / pressure switch
19. Flue gas analysis

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COOLING READINGS

Run 15+ minutes at full call before taking readings

Refrigerant	Indoor metering	Piston #	Line set length (ft)	Vertical lift (ft)	Charge added / removed (oz)

#	MEASUREMENT (where)	COOLING	TYPICAL / TARGET
1	**Return static, before filter** Return duct, upstream of filter	in. w.c.	Neg. reading. Filter drop (2-1) usually < 0.15-0.20
2	**Return static, after filter** Between filter and blower	in. w.c.	Use for total ESP
3	**Supply static** Supply plenum, after coil	in. w.c.	Total ESP typically <= 0.50 in. w.c. (check blower table)
4	**Return air** Return duct	DB °F / WB °F	Dry bulb / wet bulb
5	**Supply air** Supply plenum, out of line of sight of coil/heat	DB °F / WB °F	Cooling dT ~16-22 °F; heat rise per rating plate
6	**Suction pressure / line temp** Vapor service valve, outdoor unit	psig / °F	Superheat: TXV ~8-12 °F; piston per charging chart
7	**Liquid pressure / line temp** Liquid service valve, outdoor unit	psig / °F	Subcooling per nameplate (often 8-12 °F)
8	**Liquid temp at metering device** Liquid line at indoor coil	°F	Within ~3 °F of #7; larger drop = restriction
9	**Coil outlet temp** Suction line at TXV bulb	°F	Compare with #6 for line-set gain
10	**Outdoor air entering coil** Shaded, 6 in. from coil	°F	Use with charging chart
11	**Discharge line temp** About 6 in. from compressor	°F	Investigate above ~225 °F
12	**Outdoor volts / compressor / fan amps** Disconnect and contactor	V / A / A	Volts within 10% of nameplate; amps vs. RLA / FLA
13	**Blower volts / amps** Blower motor leads	V / A	Compare to motor FLA
14	**Thermostat call** R-C at board, Y and G present	V	24-28 Vac typical

CALCULATED VALUES

Fills in automatically as readings are entered (Adobe Reader, Chrome, Edge, Firefox)

Superheat (auto)	Target superheat	Subcooling (auto)	Target subcooling	Liquid line drop 7-8 (auto)

Filter drop (auto)	Total ESP (auto)	Rated max ESP	Cooling delta-T (auto)	Est. airflow (CFM)	CFM per ton (auto)

Charge check (auto)	Airflow / static check (auto)

GAS HEATING READINGS

Heating call, 10+ minutes after ignition

Fuel	Furnace type	Rated input (BTU)	Clocked input (BTU)	Orifice size	Altitude (ft)

#	MEASUREMENT (where)	LOW FIRE	HIGH FIRE	TYPICAL / TARGET
15	**Gas inlet pressure** Gas valve inlet tap	in. w.c.	in. w.c.	Within rating plate min / max
16	**Manifold pressure** Gas valve outlet tap	in. w.c.	in. w.c.	Per rating plate (NG high fire often ~3.5)
17	**Flame sensor** In series with sensor lead	µA	µA	Usually 2-6 µA DC; low = clean/replace
18	**Inducer pressure / switch** Pressure switch tubing	in. w.c.	in. w.c.	Above switch make point
19	**Flue gas** Vent sample port	O2 % / CO ppm	O2 % / CO ppm	Air-free CO and O2 per manufacturer
4	**Return air temp** Return duct	°F	°F	
5	**Supply air temp** Plenum, out of line of sight of heat exchanger	°F	°F	
=	**Temperature rise (5 - 4)** Calculated: supply minus return	°F	°F	Within rating plate rise range

Stack temp (°F)	CO in supply air (ppm)	Vent / termination OK?	Condensate trap / drain clean?	Heat exchanger inspected?
		Yes No	Yes No	Yes No

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FINDINGS & SIGN-OFF

Findings / parts replaced / corrective action			
Technician signature	**Date**	**Reviewed by**	**Date**