Furnace Test Data Sheet

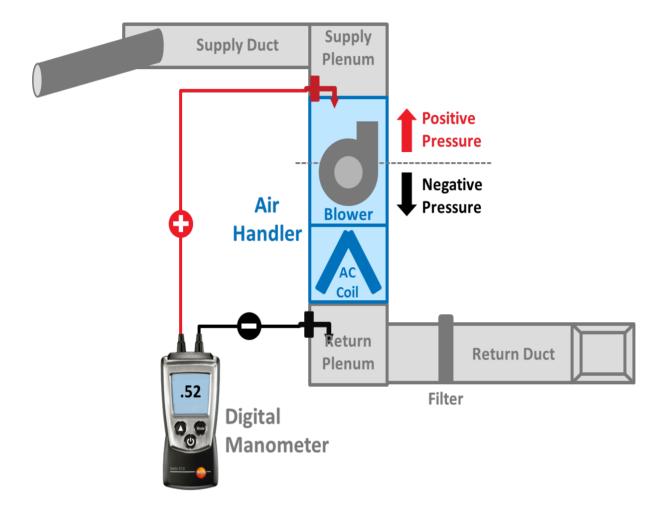
			Equipme	ent Inform	ation:						
Furnace Model #:			Serial #:				•				
Installation Date:						Thermostat:	Thermostat:				
Filter Type, Size:			<u> </u>			d Part Number:	1				
·	Customer Complaint:										
			Guoton	ioi oomp							
			Dealer	· Informati	ion:						
Dealer Name:			Boaloi	momat	Tech Name:						
Address:				Phone:							
rtaarooo.			Distri	Distributor Name:							
Distributor Name:			Biotii	Service Tech Name:							
Address:				Phone:							
rtaarooo.			Home Ow	ner Inform	nation:	i fiorio.					
Homeowner Name:			Home Ow		Address:						
City:			State: Zip: Phone:								
	/pe / Orifice Siz	٥.	State.	Ζ ιρ.	Blov	ver Performance					
Type Of Gas	Natural	LP				atic Pressure:					
Orifice Size	ivaturar	LF		Paturn Ai		ured Between Furn	ace and Air Filte	r			
	as Pressure:					red Between Furna					
Standing Inlet Press			Return Air Sta		With Filter		W/O Filter	<u> </u>			
		High Fire	Supply Air Sta		With Filter		W/O Filter	├──			
Furnace Operating Inlet W.C."	Low Fire	High Fire	Total Static (R		1		W/O Filter	 			
Manifold W.C."			Total Static (R			H Model, X-13 40"					
	perature Rise:			31		ed Selection (Wire					
rem		Lliede Fine	La Haat			ed Selection (Wife	,				
Complet Air Tamer	Low Fire	High Fire	Lo Heat	CW	Hi Heat	CIM O Ctorio	Cooling	Ctogo Dr	olov.		
Supply Air Temp			Switch Bank		1 Off delay or 100 sec	SW 2 Stage	SW 3 2nd	or Auto			
Return Air Temp	0	0		130		1 or 2 otor 34.5" Furnac		oi Auto			
Temp Rise	0 Venting:	0	Switch C	roup S2 L	leat Speed		roup S1 Thermo	ctat Satu	ID.		
		DV/C		Or		S1 Switch 1	On	Off	λþ.		
C:	Metal	PVC	S2 Switch 1 S2 Switch 2	Or		S1 Switch 1	On	Off			
Size							T				
Vert.			S2 Switch 3	Or	i Oli		Group S3Cooling	g Speed Off			
Horz			Mod	ulating Fu	rnace:	S3 Switch 1	_	Off			
Ells	Chart	1		C4	0.5	S3 Switch 2	On	Oli			
PVC Ells Radius	Short	Long		S1	On Off	- ECIV	Two Stage Fur	nace:			
Dort Novele or	Inducer:			S2	On Off		0.4	On	0"		
Part Number			S1	S3	On Off		S1	On	Off		
Voltage	N E	F		S4	On Off	— S1	S2	On	Off		
Pressure Switch	Not Firing	Firing	4	S5	On Off		S3	On	Off		
Low Fire W.C.			 	S6	On Off		S4	On	Off		
Hi Fire W.C.				S7	On Off		S1	On	Off		
	trical Reading:		S2	S8	On Off	- 53	S2	On	Off		
Line Voltage To Grou				S9	On Off		S3	On	Off		
Line Voltage To Neutral			1	S10	On Off		S4	On	Off		
Neutral To Ground Voltage				S11	On Off		S1	On	Off		
Low Voltage				S12	On Off	<u>— S4</u>	S2	On	Off		
		Yes / No	4	S13	On Off		S3	On	Off		
Dedicated Circuit Yes / No		Yes / No	4	S14	On Off		S4	On	Off		
Micro AMPS (Flame Sensor)		S3	S15	On Off		S1	On	Off			
Breaker or Fuse Size	•]	S16	On Off	S5	S2	On	Off		
Blower Voltage			1	S17	On Off		S3	On	Off		
Blower AMPS				S18	On Off		S4	On	Off		
Codes Hi		Note:									
1-	4-										
2-	5-										

3-	6-	

Split System Test Data Sheet

			Equip	ment Informat	ion:					
Condenser Model	#:	Serial #:								
Air Handler Model #:			Serial #:							
Coil Model #:			Serial #:							
Installation Date:		Todays Date: Thermostat:								
Filter Type, Size:			Heat Strip Model # Serial #							
			Cust	tomer Complai	nt:					
			Dea	aler Informatio	n:					
Dealer Name:			Tech Name:							
Address:			Phone:							
			Dis	Distributor Name:						
Distributor Name:				Service Tech Name:						
Address:				Phone:						
			Home	Home Owner Information:						
Homeowner Name) :				Address:					
City:			State:	Zip:		Phone:				
	oor Performance:			ser Coil:		Elec	trical:			
Outdoor (DB)			Dirty	Clean	Breaker Size					
Indoor Wet Bulb				ier:	Standing Volta					
Superheat			Inlet Temp		Starting Voltag					
	iperheat Calculator		Outlet temp			Compressor AMPS				
	Cooling (TXV):		Difference		Condenser AM	Condenser AMPS				
Liq Line Pressure			S/B less then 4				ressor:			
Liq Line Temp.				g Device:	Model Number					
Sat. Temp			Type	Number	Serial Number					
Sub Cooling		0	TXV			Ohms	Reading:			
			Orifice		R-C		C - Ground			
	erheat (Orifice):	I		will not work on			S - Ground			
Suction Pressure			Capillar	ry Tubes	R-S		R - Ground			
Suc Line Temp.				Detu		tatic Pressure				
Sat. Temp Superheat		0				asured in Retur				
Superneat		0			With Filter	C Measured in Supply Duct		Γ		
Indo	or Performance:		Return Air Static Supply Air Static		With Filter		W/O Filter W/O Filter			
Entering (DB) (Re			Total Static (R.		With Filter		W/O Filter			
, ,	pply Air)		Total Static (N	ASTOAS)		andler:	W/O Filler			
TD = (RA - SA)	ppry / m /	0	X-13 ECM	Communica	ting ECM Switc		Р	SC		
, ,	(Return Air)	0	T1	S1	IS8	1	Hi			
Leaving (WB)			T2	S2	S9		Med Hi			
	C (RA - SA)		T3	S3	S10		Med			
	Set Size: (Circle):		T4	S4	S11		Low			
Suct Line	3/4 7/8	1 1/8	T5	S5	S12		Codes History	/:		
Liq Line	1/4 3/8	1/2		S6	S13	1-	4-	5-		
Length (ft.)				S7		2-	3-	6-		
# Elbows (Liq Line	:)				Forn	nulas:				
# Elbows (Suc Line)		E = Enthalpy of WB TH (electric heat)= (V X A) X					3.413			
Short	Long	45°	TC = E dif. X 4			V = Volts AC A = Amps AC at heater				
Equivalent Length	•		TH = T R heati	ing X 1.08 XCF	M	<u> </u>	ectric heat) ÷ TF			
90° Short Radius	90° Long Radius	45°	TC = Total cod	oling BTU outpu	t		•			
3/4 1.7	1.5	0.7	TH = Total Hea	ating BTU outpu	ıt					
7/8 2	1.7	8.0	Note:							
1-1/8 2.3	1.6	1								
Long L	ine Set Application	1								

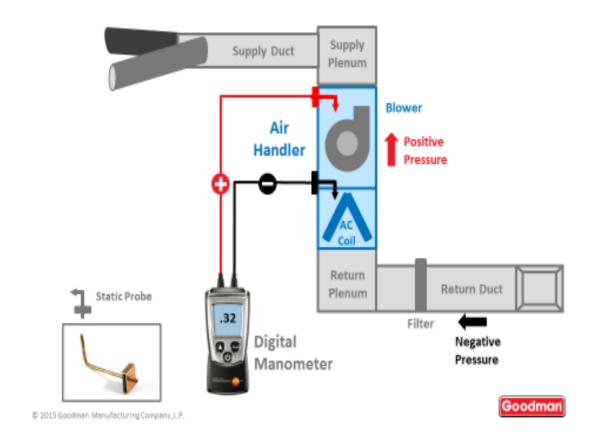
Checking Static Pressure Single Piece Air Handler



- Measure static pressure of the supply duct at the outlet of the air handler.
- Measure the static pressure of the return duct at the inlet of the air handler
- Single piece air handler evaporator coil is already considered in airflow calculation
- **NOTE:** Both readings may be taken simultaneously and read if so desired.

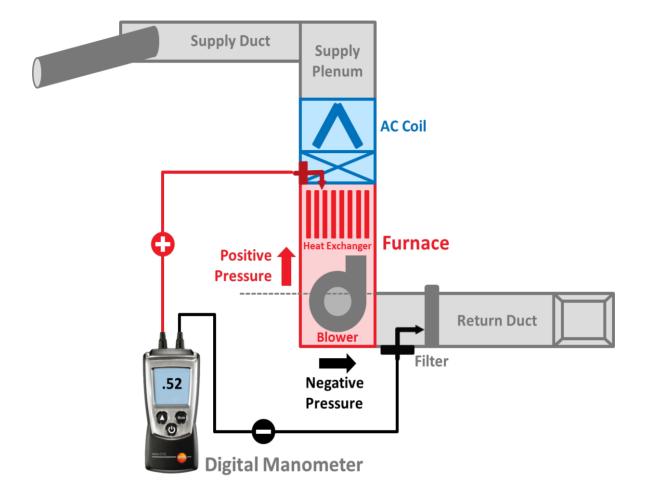
Checking Static Pressure on Two Piece Air handler

Testing TESP on an Air Handler



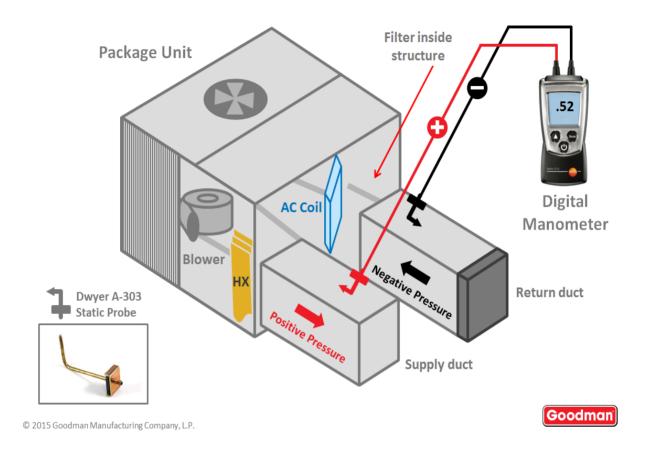
- Measure the static pressure of the supply duct at the outlet of the unit.
- Measure the static pressure between the outlet of the evaporator coil and the inlet of the air handler
- Since the evaporator coil is not part of the blower unit or furnace, <u>it must be not considered in calculating the static</u> <u>pressure of the blower unit or furnace.</u>
- NOTE: Both readings may be taken simultaneously if so desired.

Checking Static Pressure Furnace



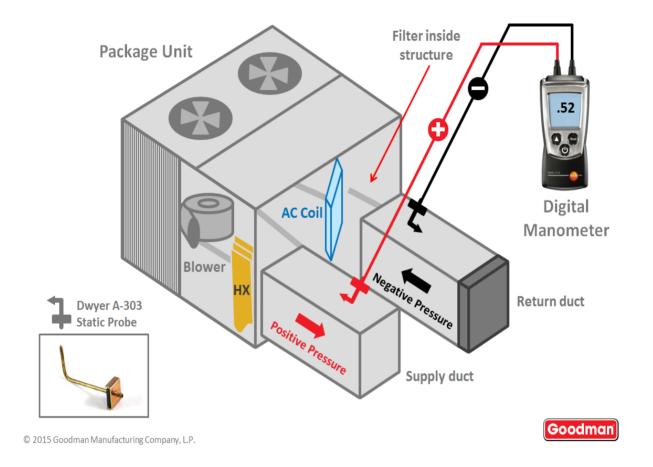
- Measure static pressure of the return duct at the inlet of the furnace.
- Measure the static pressure of the supply duct at the outlet of the furnace.
- **NOTE:** Both readings may be taken simultaneously and read if so desired.

Checking Static Pressure Residential Package



- Measure the static pressure of the return duct at the inlet of the unit.
- Measure the static pressure of the supply duct at the outlet of the unit.
- **NOTE:** Both readings may be taken simultaneously and read if so desired.

Checking Static Pressure Light Commercial Package



- Measure the static pressure of the return duct at the inlet of the unit.
- Measure the static pressure of the supply duct at the outlet of the unit.
- **NOTE:** Both readings may be taken simultaneously and read if so desired.