	This form is to	be con	npleted only by contractors officially enrolled in the Quality HVAC program who hav	e successfully completed the QI-I Technical Training.			
()	ΙΔΙΙΤ	V	Quality HVAC Program Quality In	stallation Tier I Checklist			
QUALITY Residential HVAC Services			Company Name & CSLB Number:				
			Household Last Name & Street Number:				
			Customer email:	Service Date:			
DIR	ECTIONS: This	com	prehensive checklist is to be completed onsite and upload	led to Iris. Certain key findings indicated by			
thic	k boxes below	m	ust be reviewed with and signed off by the customer. This	customer review can be done using this			
che	cklist or via the	e Qua	ality Service Report you will get by email. The key findings	must also be entered in the online form at			
http	s://frontieren	ergy	.formstack.com/forms/qi_i				
			INSPECTIONS				
		4	O No Further Attention Needed on Attic Insulation				
r o		5	□ NA – no attic / not accessible	All sections must be completed. If they are Not			
lati	Results	6	☐ Adequate and in good condition	Applicable, write "NA" and add an explanation in the comments box.			
nsu		7	☐ Needs minor adjustments				
Attic Insulation		8	O Further Attention May Be Needed on Attic Insulation	Remember, boxed values must be entered online			
Att		9	☐ Needs more insulation				
		10	☐ Needs replacement				
		12	O No Further Attention Needed on Duct Insulation				
_	Results	13	□ NA – ductless system				
tior		14	□ NA – ducts not accessible				
ula		15	☐ Ducts in conditioned space				
<u> </u>		16 17	☐ Adequate and in good condition☐ Vapor barrier has only minor tears or gaps				
Duct Insulation		18	O Further Attention May Be Needed on Duct Insulation				
_		19	☐ Inadequate or in very poor condition				
		20	☐ Vapor barrier has significant tears/gaps or no barrier				
		22	O No Further Attention Needed on Air Filter				
		23	☐ NA – no filter needed				
<u>.</u>		24	☐ Filters are adequate				
Filter	Results	25	☐ Minor fouling				
Air F	Results	26	O Further Attention May Be Needed on Air Filter				
1		27	☐ Extremely fouled				
		28	☐ No filter	Enter anything the customer should			
	ICRECTION	29	☐ Undersized for system	know and explain anything that is			
INSPECTION Comments,				Not Applicable (NA)			
	mmendations,	72					
	ind/or NA	, _					
	xplanation						
			TESTS				
	Results	76	Total Airflow	cfm			
ten		77	System Capacity	tons = total airflow / system			
System Airflow		78	Normalized Airflow	cfm/ton capacity; ideally ≥ 350			
	System Mode	86	O Heating Mode				
atnı	During Test	87	○ Cooling Mode	For heating = supply -			
Temperature Split	Results	89	Supply Air Temperature	°F return, ideally 25-65			
		90	Return Air Temperature	°F For cooling = return -			
		91	Temperature Split	°F supply, ideally 15-25			

Return Air Temperature Temperature Split

TEST Comments,					
Recommendations, 147					
and/or NA					
	xplanation				
			DESIGN		
Load Calculation	Method	151	Like for Like Replacement?	O Yes O No	
		154	Load Calculation Input Type		
		155	 Simplified Load Calc Inputs Used]	
		156	O Full Load Calc Inputs Used		
	Results	158	Design Total Cooling Load		kBtuh
	Halaada	159	Design Heating Load		kBtuh
	Uploads	207	☐ PDF or Photo of Load Calculation Report Indoor Unit Make and Model		
	Make, Model	207	Outdoor Unit Make and Model		
	Rated	210	Cooling Efficiency		SEER or SEER2 (circle one)
	Efficiency	211	Heating Efficiency		HSPF, HSPF2, or AFUE (circle one)
	,	213	Indoor Unit Capacity		kBtuh
	Capacity	214	Outdoor Unit Capacity		kBtuh
		216	☐ Criterion 1: Is a Heat Pump		
٤		217	☐ Criterion 2: Meets all Sizing Criteria:	Eurnaco: c	apacity ≤ 6 kBtuh over load OR
Design of Installed System	Determine if	218	☐ Heating capacity no less than load		apacity ≤ 0 kBtuh over load OK b: capacity ≤ 12 kBtuh over load
d S	Installed	219	☐ Heating not too large	<u> </u>	6 6 kBtuh over load OR airflow ≥ 400
alle	System is	220	□ Cooling not too large	cfm/ton	
nst	Compliant:	221	☐ Variable or multi speed system turns down		d capacity ≤ 80% of load OR NA if single
o J	ALL 3 Criteria	222	☐ Criterion 3: Meets Other Criteria: ☐ HP strip heater capacity not too large	speed	eater capacity ≤ 2.7 kW/ton
ign	Must be Met	224	☐ HP supp heating lockout has controls & instructions	THE SUIP IN	eater capacity = 2.7 KW/ton
Des		225	☐ Crankcase heating absent or well-controlled	Enter NA where r	needed and explain in comments box
		233	Compliant?	O Yes O No	1
		235	☐ Upload PDF/Photo of Bid for Installed Compliant System	Redact pricing	
	If Compliant:		Skip to Comments (# 237)		
	If Not	235	☐ Upload PDF/Photo of Bid for Alt. Compliant System		give customer a bid for a Compliant addition to your noncompliant bid.
	Compliant: 235		a opioud 1 bi / i floto of bid for Alt. compilant system	5,510	
	Uploads		☐ Upload Photos of Installed Indoor and Outdoor Unit Nameplate		
١	DESIGN				
	ents and/or NA	237			
====	xplanation				
			ADJUSTMENTS		
		241	☐ Thoughts on Current Thermostat and Settings		
	Talked to	242	☐ Current Strategies for Controlling Temperatures	Including I	Demand Response, Setbacks,
	Occupant	243	☐ Interest in Advanced Strategies		g, Thermostat Eco Modes.
ning	About	244	☐ Recommended Thermostat Schedule		
E		245	☐ Other Recommendations, ex. Thermostat Upgrade		
gra	Adjusted and	247	☐ Checked Sensor Calibration and Adjusted as Needed		
Pro	Confirmed	248	□ Reviewed Programming		
and	Scheduled	250 251	 □ NA – Not Needed, Already Efficiently Programmed □ Offered but Customer Declined 		
Thermostat and Programming	Program	251	☐ Thermostat Schedule Programmed		
	Drogrammina	254	☐ Offered Instruction but Customer Declined		
ern	Programming & Overrides	255	□ Programming and Override Instruction Provided		
Ĕ	Setup App or	259	☐ Offered Assistance but Customer Declined		
	WiFi	260	☐ Assisted Customer in Installing or Connecting App		
	Uploads	262	□ PDF or Photo of Recommended or Final Programming		

Heat Pump	Settings	265	Supplementary Heating OAT Lockout Setpoint	°FIdeally ≤ 35
		266	Defrost Delay Timer Setting	Minutes — Ideally ≥ 90
Evacuation and Charging	Refrigerant Management	298	Refrigerant Type	
		299	Cannister Weight Before Adjustment	lb:oz = Reading before -
		300	Cannister Weight After Adjustment	lb:oz reading after;
		301	Amount of Refrigerant Added or Recovered	±lb:oz
		302	☐ Upload Photo of Scale After Charging, or Final SC/SH	
		303	Name of Technician Date	
		305	Serial Number of Equipment that was Adjusted	
		306	Serial Number of Cannister	
ا ــــــــــــــــــــــــــــــــــــ	JUSTMENT			
	omments,			
Recommendations,		314		
а	nd/or NA			
Ex	planation			
			SERVICE COMPLETION	
Ħ	Building	318	Permit Number	
Permit	Permit Info	319	Jurisdiction Having Authority	
		320	Date Permit was Finaled	
Contract	Maintenance	323	☐ Enrolled Customer in Maintenance Contract	
S	Contract	324	Customer Declined Offer of Maintenance Contract	
		327	☐ OEM Installation/Service Manuals or URLs	
		328	☐ Drawing or Plans	
	System	329	Installing and Maintenance Contactor Contact Info	
_		330	☐ Recommended / Final Thermostat Programming	
nna	Manual Contents	331	☐ Refrigerant Charge Data, if Applicable	Mark all that apply
Ma	Added	332	☐ HERS Compliance and Verification Paperwork	
em	Added	333	□ Commissioning and/or Air Balancing Information□ Any New Information	
System Manual		335	☐ Maintenance Plan	
,		336	☐ Quality Service Report from Current Service	
	Location of	338	☐ Mounted on Indoor Unit	
	Manual	339	☐ Provided in Binder	
	Uploads	341	☐ Photo of System Manual	
		344	Review the following programs with the customer:	
			☐ TECH Clean California: \$1,000 incentives for new single family hea	at pump HVAC systems (up to two systems per
		344a	home). Requirements: 1) must be a TECH-enrolled contractor, 2) pro	
2		J 1 1 4	installation, 3) no new construction, retrofits only, 4) equipment must	
Other Programs	Referral to		must meet Title 24 code minimum standards. See https://techcleand	
rog	Other Programs		☐ GoGreen Financing: GoGreen Home provides California residents	= = : : : = = :
er P		344b	zero fees or closing costs and some of the best rates available. Eligib	
뒿		-	natural gas service from PG&E, SDG&E, SCE, or SoCalGas. See https:/	
		344c	□ Self-Generation Incentive Program: SGIP provides incentives for the second s	
			generation and storage technologies. The current residential incentive	·
			approval and funding reservation is required. The program is implem SoCalGas). See https://www.selfgenca.com/, or research your IOU's	
COMPLETION Comments, Recommendations,			Social dasy. See Titeps.// www.seligenea.com/, or research your 100 s	WEDSILE.
		346		
and/or NA		3-10		
Explanation				

☐ Electronic signatures will be uploaded later, after review of the emailed Quality Service Report, at: https://frontierenergy.formstack.com/forms/qhvac_claim_signature_attachment ☐ Signatures have been obtained below after review of boxed values in this checklist							
Customer Name	Technician Name						
Customer Signature	Technician Signature						
I hereby certify that I reviewed the above key findings with the technician. I understand that this does not signify that I am selecting	I hereby certify that I reviewed the above key findings with the						

SIGNATURES

The Quality Residential HVAC Services Program is funded by California utility customers under the auspices of the California Public Utilities Commission and implemented by Frontier Energy under a contract awarded by San Diego Gas & Electric® Company (SDG&E®). Customers who choose to participate in this program are not obligated to purchase any additional services offered by the contractor. Actual savings may vary. The trademarks used herein are the property of their respective owners.

this contractor or accepting this bid.

home decision maker.