| \vdash | This form is to | be con | npleted only by contractors officially enrolled in the Quality HVAC program who have | e successfully completed the QB-I Technical Training. | | | |
|-----------------------|-----------------------------------|--|--|--|--|--|--|
| QUALITY | | | Quality HVAC Program Quality Bid Tier I Checklist | | | | |
| | | | Company Name CSLB Number: | | | | |
| Reside | ential HVAC Serv | vices | Household Last Name Street Number: | | | | |
| | | | Customer email: | Service Date: | | | |
| DID | ECTIONS: This | | washansiya shaqlilishis ta ha samalatad ansiba and unland | ad to Ivia Contain konfindings indicated by | | | |
| thic che | k boxes below cklist or via th | v m ie Qua | prehensive checklist is to be completed onsite and upload ust be reviewed with and signed off by the customer. This ality Service Report you will get by email. The key findings .formstack.com/forms/qb_i | customer review can be done using this | | | |
| | | | INSPECTIONS | | | | |
| Attic Insulation | Results | 4 5 6 7 | ○ No Further Attention Needed on Attic Insulation □ NA – no attic / not accessible □ Adequate and in good condition □ Needs minor adjustments | All sections must be completed. If they are Not Applicable, write "NA" and add an explanation in the comments box. | | | |
| Attic | | 8 9 10 | ○ Further Attention May Be Needed on Attic Insulation □ Needs more insulation □ Needs replacement | Remember, boxed values must be entered online | | | |
| Duct Insulation | Results | 12 13 14 15 16 17 | ○ No Further Attention Needed on Duct Insulation □ NA – ductless system □ NA – ducts not accessible □ Ducts in conditioned space □ Adequate and in good condition □ Vapor barrier has only minor tears or gaps ○ Further Attention May Be Needed on Duct Insulation | | | | |
| | | 19 20 22 | ☐ Inadequate or in very poor condition ☐ Vapor barrier has significant tears/gaps or no barrier ☐ No Further Attention Needed on Air Filter | | | | |
| Air Filter | Results | 23 24 25 26 27 28 29 | □ NA – no filter needed □ Filters are adequate □ Minor fouling □ Further Attention May Be Needed on Air Filter □ Extremely fouled □ No filter □ Undersized for system | | | | |
| Ventilation Mechanism | Results | 31 32 33 34 35 | ○ No Further Attention Needed on Ventilation Mechanism □ All bathrooms have fans and kitchen hood works and exhausts to outside □ Has ERV or HRV □ HVAC has outside air duct ○ Further Attention May Be Needed on Vent. Mechanism □ Some bathrooms have no operating fans or don't exhaust to outside | | | | |
| Thermostat | Results | 37 43 44 45 46 47 48 | ☐ Kitchen hood not functioning/doesn't exhaust outside O No Further Attention Needed on Thermostat ☐ Non-programmable but OK ☐ Good programming ☐ Programming with minor errors ☐ Overridden but OK O Further Attention May Be Needed on Thermostat | | | | |
| Ţ | | 50 | ☐ No thermostat☐ Non-programmable and NOT OK | | | | |

51

52

53

☐ Programming with significant errors

☐ Overridden and NOT OK

☐ Inefficient

| | 100505101 | | | | | |
|-------------------------------|--|---|---|--|---|--|
| INSPECTION | | | | | Enter anything the customer | |
| Comments, | | | | | should know and explain anything | |
| Recommendations, 72 and/or NA | | | | | that is Not Applicable (NA) | |
| | xplanation | | | | | |
| TESTS | | | | | | |
| System Airflow | Results | 76 | Total Airflow | | cfm | |
| | | 77 | System Capacity | | tons = total airflow / system | |
| | | 78 | Normalized Airflow | | cfm/ton <apacity; 350<="" ideally="" th="" ≥=""></apacity;> | |
| Static Pressure | Results | 81 | Supply Static Pressure | | IWC = Supply SP - return SP; | |
| | | 82 | Return Static Pressure | | IWC ≤ 0.7 required if ductwork | |
| S Pre | | 83 | Total External Static Pressure | | IWC is new | |
| ē | System Mode | 86 | O Heating Mode | | | |
| Temperature Split | During Test | 87 | O Cooling Mode | | For heating = supply - | |
| perat Split | | 89 | Supply Air Temperature | | return, ideally 25-65 | |
| em | Results | 90 | Return Air Temperature | | °F For cooling = return - | |
| - | | 91 | Temperature Split | | °F supply, ideally 15-25 | |
| | TEST | | | | | |
| | omments, | | | | | |
| | mmendations, | 147 | | | | |
| | and/or NA | | | | | |
| E | xplanation | | | | | |
| | | | DESIGN | | | |
| _ | Method | 151 | Like for Like Replacement? | O Yes O No | | |
| Load Calculation | | 154 | Load Calculation Input Type | | | |
| ınla | | 155 | Simplified Load Calc Inputs Used | | | |
| Calc | | 156 | O Full Load Calc Inputs Used | | | |
| ad (| Results | 158 | Design Total Cooling Load | | kBtuh | |
| 임 | Unloada | 159 161 | Design Heating Load ☐ PDF or Photo of Load Calculation Report | | kBtuh | |
| p 0 | Uploads Make, Model, | 164 | Indoor Unit Make, Model, and Year (est.) | | | |
| stin | Year | 165 | Outdoor Unit Make, Model, and Year (est.) | | | |
| Existing em | Rated | 167 | Cooling Efficiency | | SEER or SEER2 (circle one) | |
| of yst | Efficiency | 168 | Heating Efficiency | | HSPF, HSPF2, or AFUE (circle one) | |
| sign S | | 170 | Indoor Unit Capacity | | kBtuh | |
| Design of E Syste | Capacity | 171 | Outdoor Unit Capacity | | kBtuh | |
| | Names Names | 174 | Indoor Unit Make and Model | | | |
| | Make, Model | 175 | Outdoor Unit Make and Model | | | |
| | Rated | 177 | Cooling Efficiency | | SEER or SEER2 (circle one) | |
| Ę | Efficiency | 178 | Heating Efficiency | | HSPF, HSPF2, or AFUE (circle one) | |
| yste | Capacity | 180 | Indoor Unit Capacity | | kBtuh | |
| d S | Capacity | | | | 1 | |
| ਰੂ | Capacity | 181 | Outdoor Unit Capacity | | kBtuh | |
| nded | Capacity | 181 183 | ☐ Criterion 1: Is a Heat Pump | No less that | kBtuh an load (not including Supp Heating) | |
| mended | Capacity | 181 183 184 | ☐ Criterion 1: Is a Heat Pump☐ Criterion 2: Meets all Sizing Criteria: | | | |
| ommended | | 181 183 184 185 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small | Furnace: d | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR capacity ≤ 12 kBtuh over load | |
| Recommended | Determine if | 181 183 184 185 186 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large | Furnace: c Heat pump Capacity s | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR | |
| of Recommended | Determine if Rec. System is | 181 183 184 185 186 187 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large ☐ Cooling not too large | Furnace: c Heat pump Capacity ≤ cfm/ton | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR b: capacity ≤ 12 kBtuh over load 6 6 kBtuh over load OR airflow ≥ 400 | |
| ign of Recommended | Determine if Rec. System is Compliant: | 181 183 184 185 186 187 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large ☐ Cooling not too large ☐ Variable or multi speed system turns down | Furnace: c Heat pump Capacity s cfm/ton Low spee | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR capacity ≤ 12 kBtuh over load | |
| Design of Recommended System | Determine if Rec. System is Compliant: ALL 3 Criteria | 181 183 184 185 186 187 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large ☐ Cooling not too large ☐ Variable or multi speed system turns down ☐ Criterion 3: Meets Other Criteria: | Furnace: c Heat pump Capacity s cfm/ton Low speed | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR capacity ≤ 12 kBtuh over load 6 6 kBtuh over load OR airflow ≥ 400 d capacity ≤ 80% of load OR NA if single | |
| Design of Recommended | Determine if Rec. System is Compliant: | 181 183 184 185 186 187 188 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large ☐ Cooling not too large ☐ Variable or multi speed system turns down ☐ Criterion 3: Meets Other Criteria: ☐ HP strip heater capacity not too large | Furnace: c Heat pump Capacity s cfm/ton Low speed speed HP strip h | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR b: capacity ≤ 12 kBtuh over load 6 6 kBtuh over load OR airflow ≥ 400 d capacity ≤ 80% of load OR NA if single eater capacity ≤ 2.7 kW/ton | |
| Design of Recommended | Determine if Rec. System is Compliant: ALL 3 Criteria | 181 183 184 185 186 187 188 189 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large ☐ Cooling not too large ☐ Variable or multi speed system turns down ☐ Criterion 3: Meets Other Criteria: ☐ HP strip heater capacity not too large ☐ HP supp heating lockout has controls & instructions | Furnace: c Heat pump Capacity s cfm/ton Low speed speed HP strip h | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR capacity ≤ 12 kBtuh over load 6 6 kBtuh over load OR airflow ≥ 400 d capacity ≤ 80% of load OR NA if single | |
| Design of Recommended | Determine if Rec. System is Compliant: ALL 3 Criteria | 181 183 184 185 186 187 188 189 190 | ☐ Criterion 1: Is a Heat Pump ☐ Criterion 2: Meets all Sizing Criteria: ☐ Heating not too small ☐ Heating not too large ☐ Cooling not too large ☐ Variable or multi speed system turns down ☐ Criterion 3: Meets Other Criteria: ☐ HP strip heater capacity not too large | Furnace: c Heat pump Capacity s cfm/ton Low speed speed HP strip h | an load (not including Supp Heating) apacity ≤ 6 kBtuh over load OR capacity ≤ 12 kBtuh over load 6 kBtuh over load OR airflow ≥ 400 d capacity ≤ 80% of load OR NA if single eater capacity ≤ 2.7 kW/ton er NA for anything Not Applicable and | |

| Design of Rec. System (Cont.) | Value of Proposed | 194 | Overall Value | | | | | |
|--------------------------------------|--|---------|--|---|---------------------------------|--|--|--|
| | | 195 | Energy Savings or Bill Reduction | | Score from 1 to 5 | | | |
| | | 196 | Improved Air Quality | | (5 is best) | | | |
| sign ten | System | 197 | Improved Comfort | | | | | |
| Sys | | 198 | Convenience | | | | | |
| | Uploads | 227 | ☐ PDF/Photo of Bid for Recommended Syster | <u> </u> | Redact pricing information | | | |
| | DESIGN | | | | | | | |
| | omments, | | | | | | | |
| | mmendations, | 237 | | | | | | |
| | ind/or NA | | | | | | | |
| E) | xplanation | | | | | | | |
| | | | SERVICE COI | MPLETION | | | | |
| | | | Review the following programs with the custom | er: | | | | |
| | | | ☐ TECH Clean California: \$1,000 incentives for | new single family heat pump HVAC syst | ems (up to two systems per | | | |
| | | 0.4.4 | home). Requirements: 1) must be a TECH-enrolled contractor, 2) project must be a non-heat pump to heat pump | | | | | |
| 10 | | 344a | installation, 3) no new construction, retrofits or | ıly, 4) equipment must be AHRI matched | d systems, and 5) equipment | | | |
| шĕ | | | must meet Title 24 code minimum standards. S | ee https://techcleanca.com/. | | | | |
| ogr | Referral to Other Programs | | ☐ GoGreen Financing: GoGreen Home provide | s California residents with financing for | energy efficiency upgrades with | | | |
| P. | | 344b | zero fees or closing costs and some of the best | = | | | | |
| Other Programs | | | natural gas service from PG&E, SDG&E, SCE, or | . , . | | | | |
| ō | | | ☐ Self-Generation Incentive Program: SGIP pro | ovides incentives for the installation of o | ualifying on-site nower | | | |
| | | | generation and storage technologies. The current residential incentive is \$0.15 per Wh-AC of the system. Advanced | | | | | |
| | | 344c | approval and funding reservation is required. The program is implemented by your IOU (PG&E, SDG&E, SCE, or | | | | | |
| | | | SoCalGas). See https://www.selfgenca.com/, or | | (| | | |
| CC | MPLETION | | | · | | | | |
| | omments, | | | | | | | |
| Recommendations, | | 346 | | | | | | |
| | and/or NA | | | | | | | |
| | xplanation | | | | | | | |
| _ | | | SIGNIA | | | | | |
| | | | SIGNAT | URES | | | | |
| | □ Floetronic sig | natur | es will be uploaded later, after review of the em | ailed Quality Convice Benert, at | | | | |
| | | | y.formstack.com/forms/qhvac_claim_signature_ | | | | | |
| | | | | | | | | |
| | ☐ Signatures na | ive be | en obtained below after review of boxed values | in this checklist | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | C | Customer Name | Technician Name | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | Cu | istomer Signature | Technician Signa | ature | | | |
| | I harabi sartifi | | | | | | | |
| t o | | | reviewed the above key findings with the | I hereby certify that I reviewed the a | above key findings with | | | |
| ıe | | | that this does not signify that I am selecting tractor or accepting this bid. | the home decision | | | | |
| and contractor or accepting and aid. | | | | | | | | |
| The | Quality Residential I | IVAC Se | ervices Program is funded by California utility customers un | der the auspices of the California Public Utilities C | Commission and implemented by | | | |
| | | | t awarded by San Diego Gas & Electric Company (SDG&E®) | | | | | |
| purc | purchase any additional services offered by the contractor. Actual savings may vary. The trademarks used herein are the property of their respective owners. | | | | | | | |