



# **Load Short Form** **Entire House** **SHATTO HEATING & AIR, INC.**

Job: WILLMANN RESIDENCE  
 Date: NOVEMBER 5, 2012  
 By: KIM SHATTO

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## Project Information

For: CASTAGNA CONSTRUCTION  
 521 NW OLD MILL RD, LAKE CITY, FL 32055  
 Phone: 386-755-6867 Fax: 386-755-6867

## Design Information

|                             | Htg | Clg | Infiltration         | Simplified |
|-----------------------------|-----|-----|----------------------|------------|
| Outside db (°F)             | 33  | 92  | Method               | Average    |
| Inside db (°F)              | 70  | 75  | Construction quality | 0          |
| Design TD (°F)              | 37  | 17  | Fireplaces           |            |
| Daily range                 | -   | M   |                      |            |
| Inside humidity (%)         | 30  | 50  |                      |            |
| Moisture difference (gr/lb) | 11  | 52  |                      |            |

### HEATING EQUIPMENT

Make TRANE COMPANY  
 Trade XB13 WEATHERTRON  
 Model 4TWB3036A1  
 AHRI ref no.

Efficiency 8 HSPF  
 Heating input 43500 Btuh @ 47°F  
 Heating output 25 °F  
 Temperature rise 1600 cfm  
 Actual air flow 0.053 cfm/Btuh  
 Air flow factor 0 in H2O  
 Static pressure  
 Space thermostat

### COOLING EQUIPMENT

Make TRANE COMPANY  
 Trade XB13 WEATHERTRON  
 Cond 4TWB3036A1  
 Coil 4TEC3F36  
 AHRI ref no.  
 Efficiency 11.2 EER, 13.3 SEER  
 Sensible cooling 25200 Btuh  
 Latent cooling 10800 Btuh  
 Total cooling 36000 Btuh  
 Actual air flow 1600 cfm  
 Air flow factor 0.046 cfm/Btuh  
 Static pressure 0 in H2O  
 Load sensible heat ratio 0.94



| ROOM NAME      | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|----------------|------------|-----------------|-----------------|---------------|---------------|
| STUDY          | 143        | 2985            | 3107            | 159           | 144           |
| HALL BATH      | 78         | 1258            | 1504            | 67            | 70            |
| BEDROOM #2     | 104        | 2355            | 2355            | 125           | 109           |
| LIVING ROOM    | 654        | 10430           | 12548           | 554           | 583           |
| KITCHEN        | 158        | 2621            | 3313            | 139           | 154           |
| DINING ROOM    | 182        | 2938            | 3509            | 156           | 163           |
| LAUNDRY        | 40         | 1423            | 1173            | 76            | 54            |
| OFFICE         | 54         | 1020            | 1118            | 54            | 52            |
| MASTER BATH    | 117        | 2503            | 3119            | 133           | 145           |
| CLOSET         | 10         | 225             | 226             | 12            | 10            |
| MASTER BEDROOM | 80         | 1908            | 1861            | 101           | 86            |
| WIC            | 36         | 436             | 620             | 23            | 29            |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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|                   |   |      |       |       |      |      |
|-------------------|---|------|-------|-------|------|------|
| Entire House      | d | 1654 | 30101 | 34452 | 1600 | 1600 |
| Other equip loads |   |      | 0     | 0     |      |      |
| Equip. @ 0.97 RSM |   |      |       | 33419 |      |      |
| Latent cooling    |   |      |       | 2323  |      |      |
| TOTALS            |   | 1654 | 30101 | 35742 | 1600 | 1600 |

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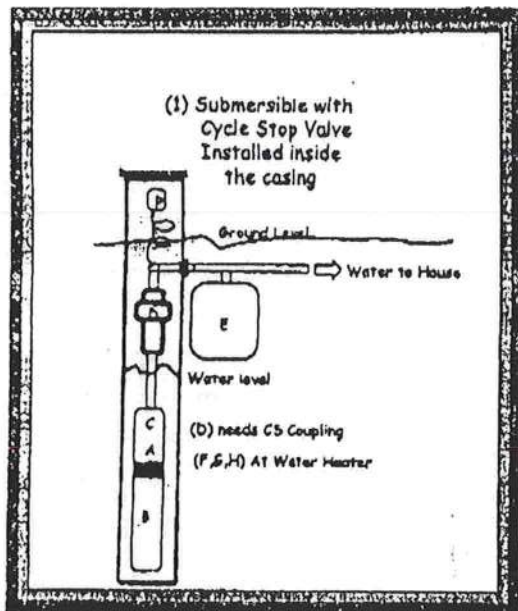
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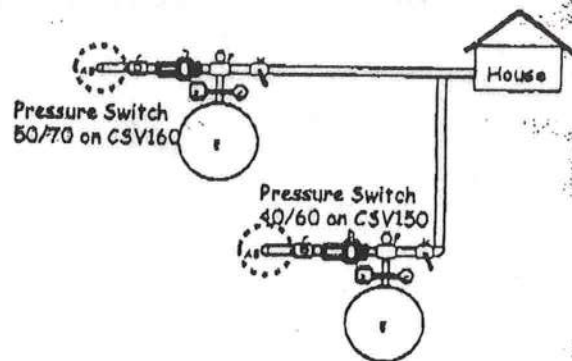
# Technical Information

## Model CSV1 and CSV2 Applications

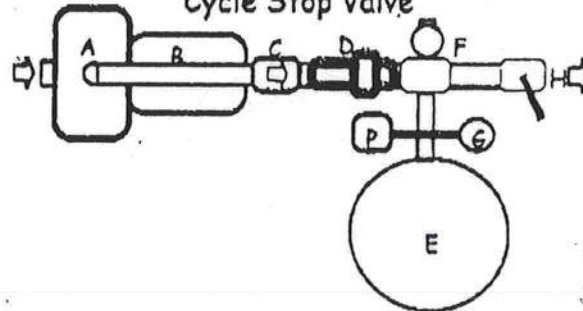
- A) Pump
- B) Motor
- C) Check valve
- D) Cycle Stop Valve
- E) Pressure tank
- F) Pressure relief valve
- G) Pressure gauge
- H) Isolation valve
- P) Pressure switch
- LP) Low Pressure Cut off



### (2) Submersibles with Cycle Stop Valves In Different Locations



### (1) Jet Pump with Cycle Stop Valve



### (1) Submersible Pump with Cycle Stop Valve

