

CITY OF SACRAMENTO

SUBMIT TWO COPIES

THIS COPY SHALL BE ON JOB SITE AT ALL TIMES

LOAD CALCULATION - N.E.C. 220-30

CONTRACTOR/OWNER REBI BILT REAS JOB ADDRESS: 974 CORBUE ST/AGES DTOTAL SQ. FT. 3650

NUMBER	ITEM	WATTS	Air conditioning example (Not heat pump)
3650	Sq. ft @ 3 watts per sq. ft.	10950	Compressor 20 amps Fan 5 amps
(9)	20 Amp. Appliance circuits @ 1,500 watts each	13500	Unit Total Load - 25 amps x 240V
(1) GAS	Range (Nameplate Rating = N.P.R.)	GAS	Electric Furnace @ N.P.R. - 6,000 watts X 65% = 3900 Watts
(1)	Oven (N.P.R.)	2530	Use 6000W., since it is larger.
(1)	Cooking Units (N.P.R.) <u>Microwaves</u>	8300	Heat Pump Note: Be careful when doing load calculations where heat pumps are installed. The load for most heat pumps that are equipped with auxiliary heat strips will be larger under the demand for heat. For the purposes of load calculations only, on heat pumps, use 100% of the heat pump compressor and fans and 65% of auxiliary heat load to show total heat pump load.
(1) GAS	Water Heater (N.P.R.)	GAS	Heat Pump Example Compressor 20 Amps Fans 5 amps
(1)	Dishwasher (N.P.R.)	15525	Heat Pump Load = 25A X 240V = 6,000 Aux. Heat Strip = 6,000W X 65% = 3,900W Total Heat Pump Load = 9,900W
(1)	Disposal (N.P.R.)	874	
(1)	Washer [1500 watts min. - N.E.C. 220-16(b)]	1150	
(1) GAS	Dryer [5000 watts min. or N.P.R. if larger] N.E.C. 220-181	GAS	
(1)	Meters (N.P.R.) <u>TRASH COMPACTOR</u>	747.5	
(1)	Other (N.P.R.) <u>POOL PUMP AND SP. V. LIGHT</u>	2478	
(1)	Other (N.P.R.) <u>FURNACE RETURN SPA (10A BREAKER)</u>	16100	
Air Conditioning Equipment			
Air Conditioning [cooling @ (N.P.R. X 100%)] = <u>776</u>			
Electrical Heating @ (N.P.R.) X 65% =			
NOTE: USE THE LARGEST LOAD - HEAT OR COOL =			
Heat pump (compressor & fans) X 100% =			
Aux. heat strips (or elect. furnace) X 65% =			
Total Heat Pump Load =			
NOTE = AMPS X CIRCUIT VOLTAGE = WATTS			

Sub-Total = 58182
 (Less 1st 10KW) 10,000 @ 100% = 48182
 10,000 Watts

Remainder @ 40% @ 40% = 19272.80 Watts

Total Air Cond. and/or heat pump load = 776.00 Watts

Total Service Load = 36448 Watts

Aux. heat strips (or elect. furnace) + 240V = 158.47 Amps

Service Size 200