

# Current Location & Use of Air Conditioning Units: Hillsborough City School District

Presented By:  
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# Agenda

- ▶ Types of Air Conditioning Units
- ▶ Location of Air Conditioning Units by School Site
- ▶ Information on Commercial Portable Air Conditioning Units
- ▶ Questions?

# Types of Air Conditioning Units

- ▶ Individual Units
- ▶ Multi-Zone Units
- ▶ Split Units
- ▶ Portable Units



# Location of Air Conditioning Units by Site:

## Crocker Middle School

- ▶ New Building
- ▶ Library
- ▶ Classrooms 20 and 21
- ▶ Portables (3)



# North Elementary School

- ▶ Library
- ▶ Conference Room
- ▶ Portables (3)



# West Elementary School

- ▶ Gen 7 Modulares (4)
- ▶ Administration Building
- ▶ Classroom # 3
- ▶ Portables (2)



# South Elementary School

- ▶ Staff Room
- ▶ Portables (4)
- ▶ Classroom K



# Portable Commercial Unit

- ▶ 4 Air Nozzles Requiring 4 5" Diameter Wall Penetrations
- ▶ Noise Level: 65 Decibels
- ▶ Voltage: 208/230 = Requires 220 Wiring and 30 Watt Amperage
- ▶ Cost of Unit: \$6,500.00
- ▶ Cost/ Day:

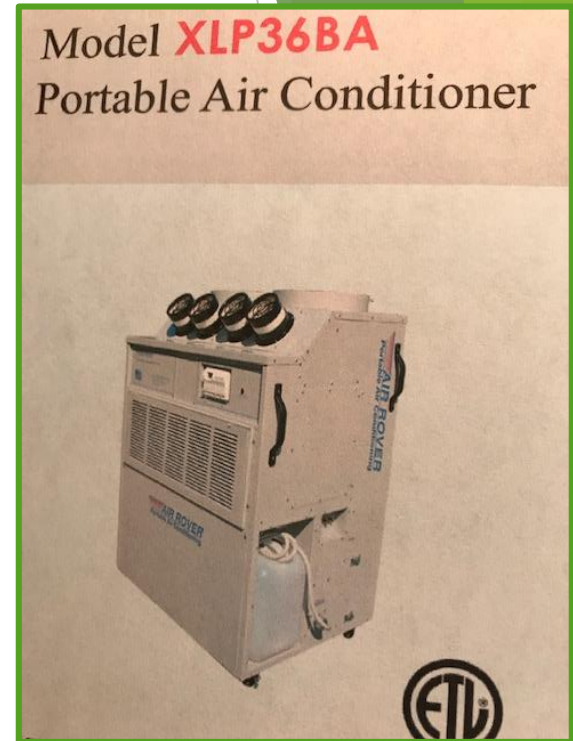
| Rate Info |         | Notes                 |
|-----------|---------|-----------------------|
| \$/kWh:   | \$ 0.41 | PG&E Bill for Crocker |

| Unit Info                   |        | Notes         |
|-----------------------------|--------|---------------|
| British Thermal Unit (BTU): | 36,000 |               |
| Tons:                       | 3      |               |
| Amps:                       | 30     |               |
| Volts:                      | 240    |               |
| Watts:                      | 7,200  | =Amps x Volts |
| kWh:                        | 7.2    | =Watts/1000   |

| Continuous Running Cost |             | Notes             |
|-------------------------|-------------|-------------------|
| \$/hr:                  | \$ 2.95     | =\$/kWh x kWh     |
| \$/day:                 | \$ 70.85    | =\$/hr x 24 hours |
| \$/month:               | \$ 2,125.44 | =\$/day x 30 days |

| Cost w/ 80 Degree Avg. Outside Temp |           | Notes                      |
|-------------------------------------|-----------|----------------------------|
| \$/day:                             | \$ 17.71  | =\$/day x .25 multiplier   |
| \$/month:                           | \$ 531.36 | =\$/month x .25 multiplier |

| Cost w/ 90 Degree Avg. Outside Temp |           | Notes                      |
|-------------------------------------|-----------|----------------------------|
| \$/day:                             | \$ 21.25  | =\$/day x .30 multiplier   |
| \$/month:                           | \$ 637.63 | =\$/month x .30 multiplier |



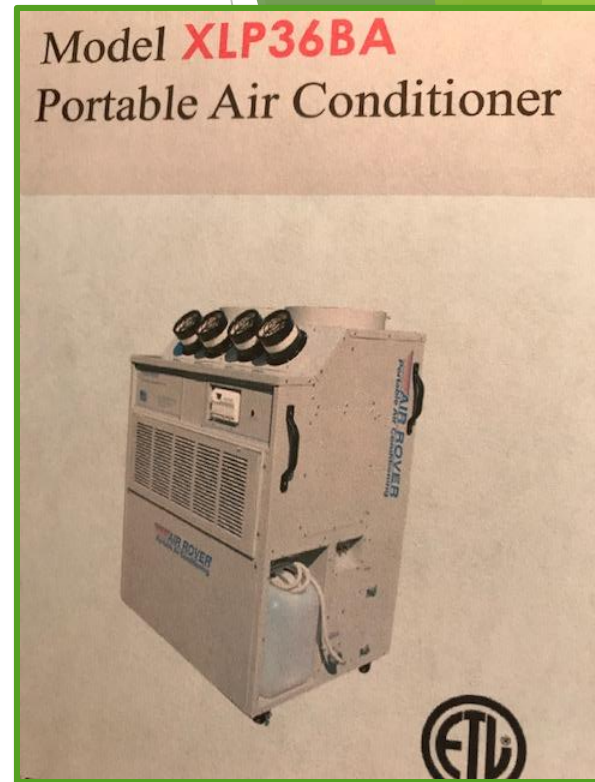
Model **XLP36BA**  
Portable Air Conditioner

**Size: 50.25"H x38"W x30"D**  
**Weight: 412lbs. (3 Tons)**  
**Thermostat**  
**36,000 BTU's**

| Outside Avg. Temp | Multiplier |
|-------------------|------------|
| 110               | 0.80       |
| 100               | 0.40       |
| 90                | 0.30       |
| 80                | 0.25       |

# Portable Commercial Unit - Continued

- ▶ Potential Additional Costs:
  - ▶ \*Structural Engineer
  - ▶ Electrical Engineer
  - ▶ Construction Contractor
  - ▶ On-going Maintenance
  - ▶ Storage Location When Not in Use
  - ▶ Open Penetrations Inside and Outside When/If Unit is Stored
  - ▶ \*No DSA?



# Questions?

