

# Solutions

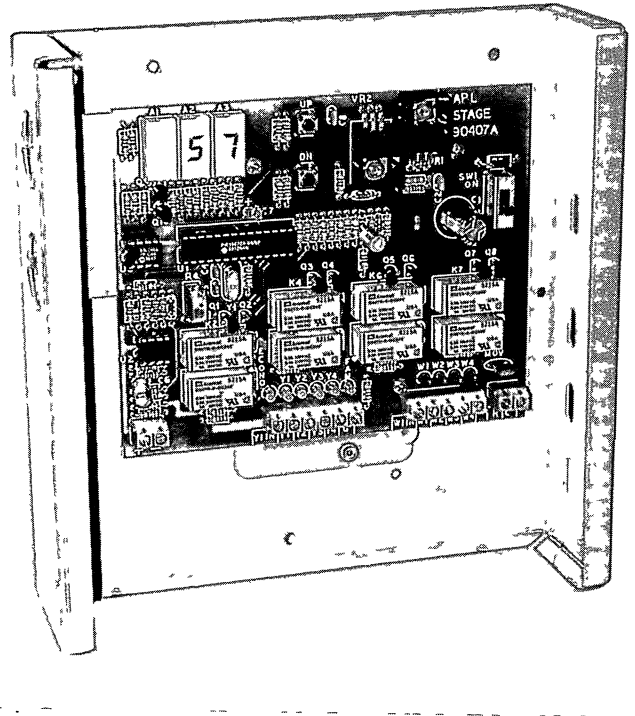
NO MINIMUM

## Low Cost Package Unit VAV

*Now you can control  
and stage each  
compressor, based on  
time and discharge  
temperature.*

### Features:

- System control for up to five stages of cooling and four heat stages
- Stage the economizer and each compressor independently, based on supply air temperature and time delays
- Converts multi-compressor units into VAV rooftops
- Minimum four-minute compressor run times assure oil returns to the compressors
- Minimum six-minute compressor off times prevents short cycling
- Supply air temperature displayed continuously on easy-to-read 3-digit LED
- Push buttons and LED digital display provide easy viewing and changing of set points
- Non-volatile memory holds set points during power failures
- Output status lights for easy operational status identification
- Supports economizer operation



### Benefits:

- Don't bang on banks of compressors - do it smoothly, stage by stage
- Prevent low and high limit cutouts and coil freeze-ups
- Eliminate premature heat exchanger failure
- Maximize each compressor's operation
- Eliminate compressor cycling
- Increase compressor life
- Reduce operation costs
- Get longer run times
- Provide superior temperature control

For more information call:

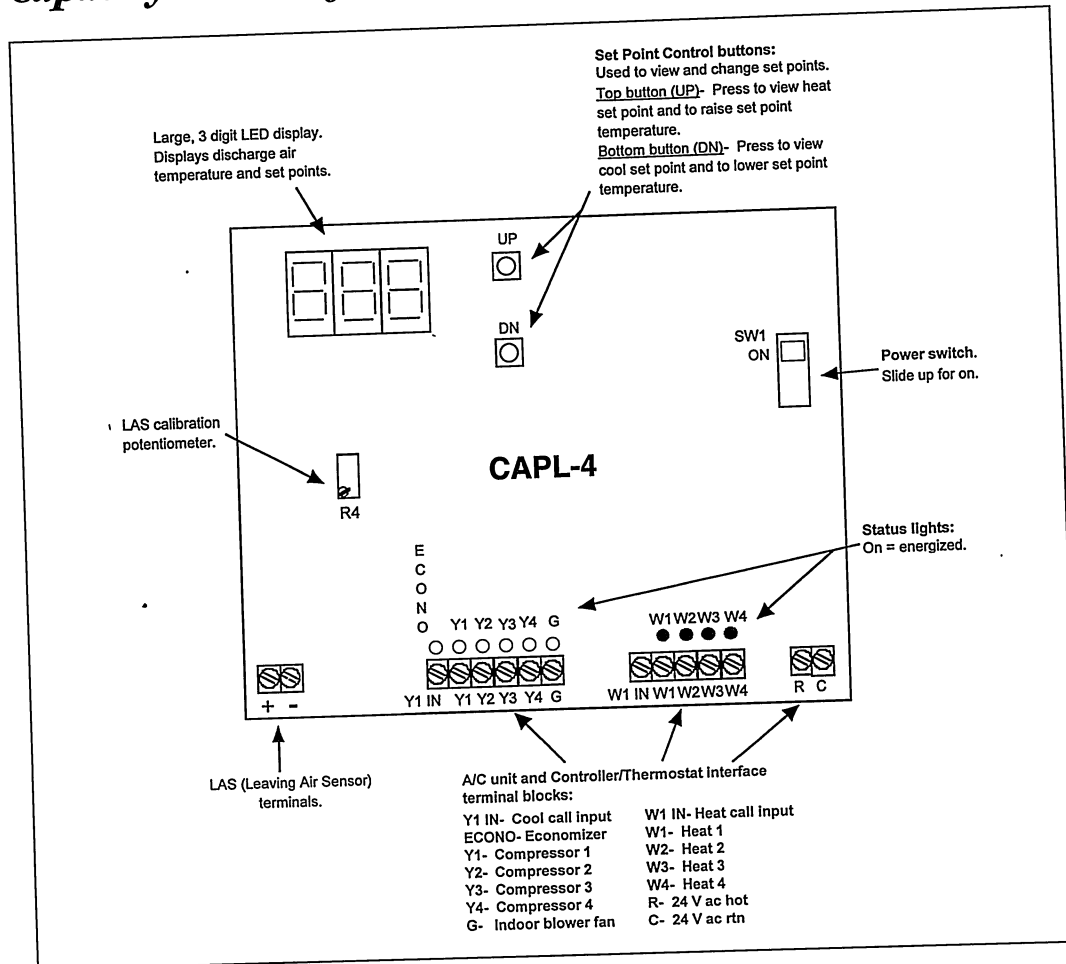
**800-228-2966  
714.898-9963**

or visit our website at:

**www.  
hvacomfort.com**

# CAPL-4 and CAPL-2 Capacity Control for Multi-Stage Compressor Operation

**CALIFORNIA  
ECONOMIZER**  
The Zoning Systems Company



## TYPICAL COOLING OPERATION WITH A 48° SET POINT AND NO ECONOMIZER.

LV Air T	T>58°				T<52°				T>58°
	0	6	12	18	24	30	36	42	0
Time in Min.									
Stg 1	X	X	X	X	X	X	X	•	X
Stg 2	•	X	X	X	X	X	•	•	•
Stg 3	•	•	X	X	X	•	•	•	•
Stg 4	•	•	•	X	•	•	•	•	•

X - Compressor running    • - Compressor off

- Each compressor is programmed for four minutes minimum run.
- Twenty seconds after the leaving air temperature drops below 52°F, last compressor turned on will turn off. The system will run in this mode until satisfied or temperature rises above 58°F. Above 58°F, next compressor is turned on for four minutes minimum run time. Temperatures below 52°F will turn off, last stage turned on. The compressors will modulate on and off in this manner until cooling call is satisfied.
- If leaving air temperature remains below 58°F but not below 52°F, all compressors turned on continue to run.
- After four-minute minimum run time, a drop below 48°F will turn off all compressors.

**CAPL TECHNOLOGY...by California Economizer**  
*The only effective way to zone and control multi-compressor equipment!*

# Zoning

For more information call:

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**714.898-9963**

or visit our website at:

**www.**

**hvacccomfort.com**