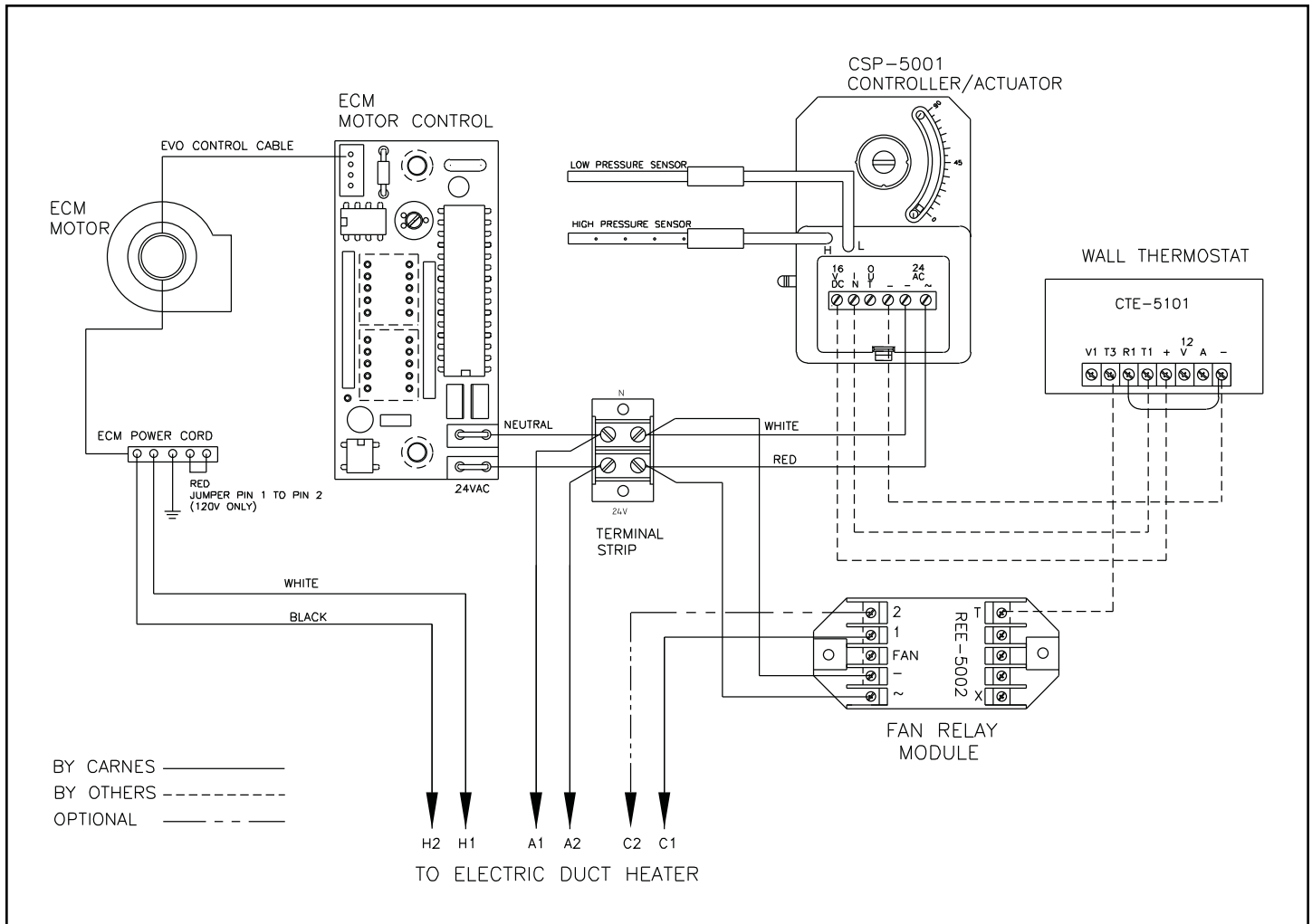


## SPECIFICATION SHEET

### CONSTANT FAN POWERED AIR TERMINAL - WITH ELECTRIC REHEAT ANALOG ELECTRONIC CONTROLS ET - CONTROL OPTION, ECM

CARNES COMPANY 448 S. Main St., P. O. Box 930040, Verona, WI 53593-0040 Phone: (608)845-6411 Fax: (608)845-6504 www.carnes.com



### SEQUENCE OF OPERATION

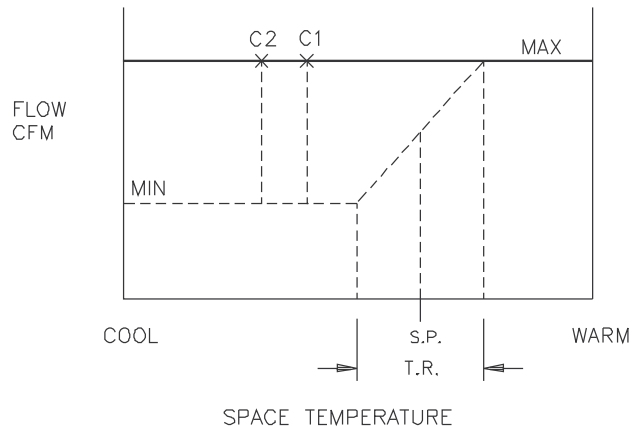
THE TERMINAL UNIT FAN RUNS CONTINUOUS TO PROVIDE CONSTANT AIRFLOW TO THE ROOM.

ON A CALL FOR COOLING THE PRIMARY DAMPER OPENS TOWARDS THE MAXIMUM CFM SETTING TO SATISFY ROOM SET-POINT. AT MAXIMUM PRIMARY CFM THE FAN WILL DELIVER 100% PRIMARY AIR TO THE SPACE.

ON A CALL FOR HEATING THE PRIMARY DAMPER CLOSES TOWARDS THE MINIMUM CFM SETTING. AS THIS OCCURS, PLENUM AIR IS INDUCED TO MAINTAIN CONSTANT AIRFLOW AND SATISFY ROOM SET-POINT.

ON A FURTHER CALL FOR HEAT, PRIMARY AIRFLOW IS AT THE MINIMUM SETTING AND THE FIRST STAGE (C1) OF ELECTRIC HEAT IS ENERGIZED. IF ADDITIONAL HEAT IS REQUIRED THE SECOND STAGE (C2) OF ELECTRIC HEAT IS ENERGIZED. AS THE ROOM TEMPERATURE INCREASES THE HEATING STAGES ARE DE-ENERGIZED AND PRIMARY AIRFLOW WILL INCREASE TO SATISFY ROOM SET-POINT.

### CONTROL DIAGRAM



S.P. = SET POINT  
 T.R. = THROTTLING RANGE