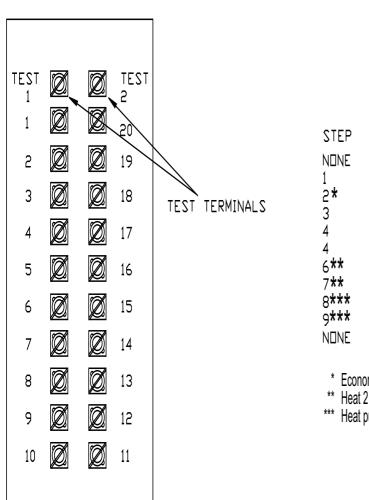
Microcontrols

The Voyage Continues

8.4. Test Mode Voyager 3-25



TEST MODE TABLE

STEP	MDDE	LED	□hmx1k
NDNE	NORMAL OPERATION	$\square N$	N/A
1	INDOOR FAN ON	BLINK	2.2
2*	ECONOMIZER OPEN	BLINK	3.3
3	COOL 1 (ECON. CLOSE)	BLINK	4.7
4	C00L 2	BLINK	6.8
4	HEAT 1	BLINK	10
6 **	HEAT 2	BLINK	15
7 **	HEAT 3	BLINK	22
8 ** *	DEFROST	BLINK	33
9 ** *	EMERGENCY HEAT	BLINK	47
NDNE	NORMAL OPERATION	$\square N$	N/A

Economizer is optional. If not installed, this step will be skipped.
Heat 2 & 3 are a function if the size heaters installed.

^{***} Heat pump units only.

8.6. VAV Test Mode Voyager 27.5-50

TEST	MODE	IGV/VFD	FAN	ECON	COMP	COMP	HEAT	HEAT	OHMS
STEP		(Note 7)		(Note 6)	1	2	1	2	
1	IGV/VFD TEST	OPEN/100%	OFF	CLOSED	OFF	OFF	OFF	OFF	2.2K
2	IGV/VFD TEST	CLOSED/OFF	OFF	CLOSED	OFF	OFF	OFF	OFF	3.3K
3	MINIMUM	(Note 1) IN		MINIMUM					
	VENTILATION	CONTROL	ON	POSITION	OFF	OFF	OFF	OFF	4.7K
4	ECONOMIZER	(Note 1) IN							
		CONTROL	ON	OPEN	OFF	OFF	OFF	OFF	6.8K
5	COOL	(Note 1) IN	(Note 2)	MINIMUM	(Note 4)				
	STAGE 1	CONTROL	ON	POSITION	ON	OFF	OFF	OFF	10K
6	COOL	(Note 1) IN	(Note 2)	MINIMUM	(Note 5)	(Note 4,5)			
	STAGE 2	CONTROL	ON	POSITION	OFF	ON	OFF	OFF	15K
7	COOL	(Note 1) IN	(Note 2)	MINIMUM	(Note 4)	(Note 4)			
	STAGE 3	CONTROL	ON	POSITION	ON	ON	OFF	OFF	22K
8	HEAT	(Note 1)	(Note 2)				(Note 3)		
	STAGE 1	OPEN	ON	CLOSED	OFF	OFF	ON	OFF	33K
9	HEAT	(Note 1)	(Note 2)				(Note 3)	(Note 3)	
	STAGE 2	OPEN	ON	CLOSED	OFF	OFF	ON	ON	47K
10	RESET								

8.7. CV Test Mode Voyager 27.5-50

TEST	MODE	FAN	ECON	COMP	COMP	HEAT	HEAT	OHMS
STEP			(Note 6)	1	2	1	2	
1	MINIMUM		MINIMUM					
	VENTILATION	ON	POSITION	OFF	OFF	OFF	OFF	4.7K
2	ECONOMIZER							
	TEST OPEN	ON	OPEN	OFF	OFF	OFF	OFF	6.8K
3	COOL		MINIMUM	(Note 4)				
	STAGE 1	ON	POSITION	ON	OFF	OFF	OFF	10K
4	COOL		MINIMUM	(Note 5)	(Note 4,5)			
	STAGE 2	ON	POSITION	OFF	ON	OFF	OFF	15K
5	COOL		MINIMUM	(Note 4)	(Note 4)			
	STAGE 3	ON	POSITION	ON	ON	OFF	OFF	22K
6	HEAT							
	STAGE 1	ON	CLOSED	OFF	OFF	ON	OFF	33K
7	HEAT							
	STAGE 2	ON	CLOSED	OFF	OFF	ON	ON	47K
8	RESET							

Notes

- 1 The IGV will be controlled to the supply pressure set point unless test mode has been running for 6 minutes or Longer then IGV damper will drive to the full open position.
- 2 The supply fan will not be allowed to go from an off state to an on state until the IGV are fully closed.
- 3 The Heat outputs will not be allowed to come on until the IGV are at the full open position.
- **4** The condenser fans will operate any time a compressor is ON providing the outdoor air temperatures are within the operating values listed in 10.1.2.
- **5** For 27.5 through 35 Ton units, cool stage 2 is not used and cool stage 3 becomes the active sequence.
- 6 The exhaust fan will turn on anytime the economizer damper position is equal to or greater than the exhaust fan set point.
- 7- The VAV box output will be energized at the start of the test mode to allow time for the boxes to open. It takes 6 minutes for the boxes to drive from the full closed position to the full open position. The timing cannot be changed in the field.