

ER-110 *Electronic Refrigeration Valve Controller*



www.btuvent.com

The efficiency of any refrigeration system is extremely dependent on the control accuracy of the expansion valve. It is a given that the majority of mechanical expansion valves in service today, are out of adjustment, causing inefficient cooling and power consumption. Varying conditions, such as ambient temperatures, changing air flows, and air distribution dictate the need for expansion valve adjustment.

The ER-110 was designed specifically to control (EEV) electronic expansion valves and (EPRV) electronic pressure regulating valves to logically provide maximum efficiency with ever changing conditions.



*ER-110
control cards
Eight Evaporators*



*Each Evaporator contains a
EEV (electronic expansion
valve), pressure transducer and
a suction temperature sensor.*

The ER-110 uses a suction pressure transducer and suction temperature sensor to measure the Super Heat of the Evaporator. The ER-110 will then adjust the EEV to maintain the Super Heat Setpoint. When used in conjunction with the CR-110 the Super Heat Setpoint may auto range to satisfy the compressor requirements.

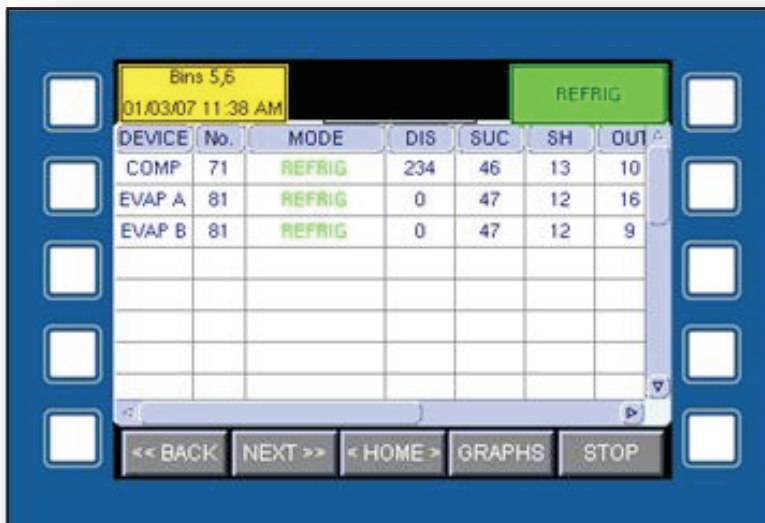
ER-110 THE COMPLETE EVAPORATOR CONTROLLER

- Evaporator Control
- Dual EEV Control
- Dual PID Loop Control
- Suction Pressure Regulator EPR
- Programmable Gas Type
- Programmable Valve Steps
- RS-485 Communications
- Single EEV
- Double EEV
- EEV & EPR
- Super Heat Setpoint Ramp
- 0-20ma Input
- Fan, LLS, Defrost Outputs
- XT Ethernet Access

BTU VENTILATION • Perham, Minnesota • 888-884-8070

DEVICE	No.	MODE	DIS	SUC	SH	OUT	Suc T	Dis T	SH SP	LEAD	
COMP	71	REFRIG	222	46	7	30	30	176		1	Reset
EVAP A	81	REFRIG		47	12	9	36		12		Reset
EVAP B	81	REFRIG		47	12	10	36		12		Reset

The ER-110 when connected to a BTU XT control panel provides direct updated information via the internet. All ER-110 settings can be viewed and changed via the internet. BTU is continuing to lead the way in communications and providing user friendly interfaces.



The sole purpose of the ER-110 card is to drive an EEV to meter the exact amount of refrigerant to the evaporator.

Maximize your refrigeration potential today using the ER-110 electronic expansion valve controller.

The XT panel color touch screen provides a local user interface.



47418 US Highway 10
 Perham, MN 56573
 Phone: 218-346-3357
 Toll Free: 888-884-8070

SALES AND DISTRIBUTION