

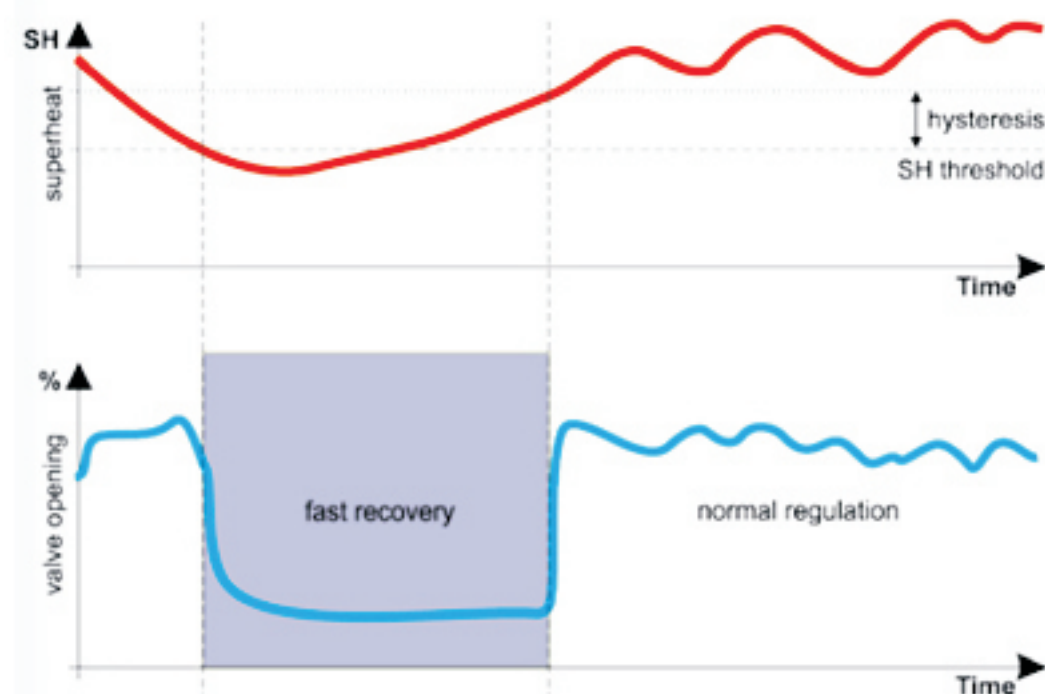


Electronic Expansion Valve Driver



- ▶ Drivers for ON/OFF (pulsed) and stepper electronic expansion valve management
- ▶ ON/OFF (pulsed) expansion valve support with 30W max power and coil c.a.
- ▶ Temperature analog inputs (NTC, PTC, PT1000)
- ▶ Pressure analog inputs (0÷5V, 4÷20mA)
- ▶ Possibility to broadcast via LAN the pressure signal to multiplexed cabinets
- ▶ Alarm management (visual, relay)
- ▶ Cool Defrost for defrost time reduction
- ▶ Standard communication protocol ModBUS-RTU
- ▶ Hot Key or Prog tool kit connector for a quick and easy programming
- ▶ 6VA max power absorption
- ▶ Display with red LED (10,5mm high) and icons

Fast Recovery:



The XEV series uses a special algorithm to return to a normal situation of regulation after verifying a superheat alarm condition. Dixell's Fast Recovery algorithm corrects the superheat problems more rapidly than the traditional systems because if a critical situation occurs, the regulation system increases its speed of reaction.

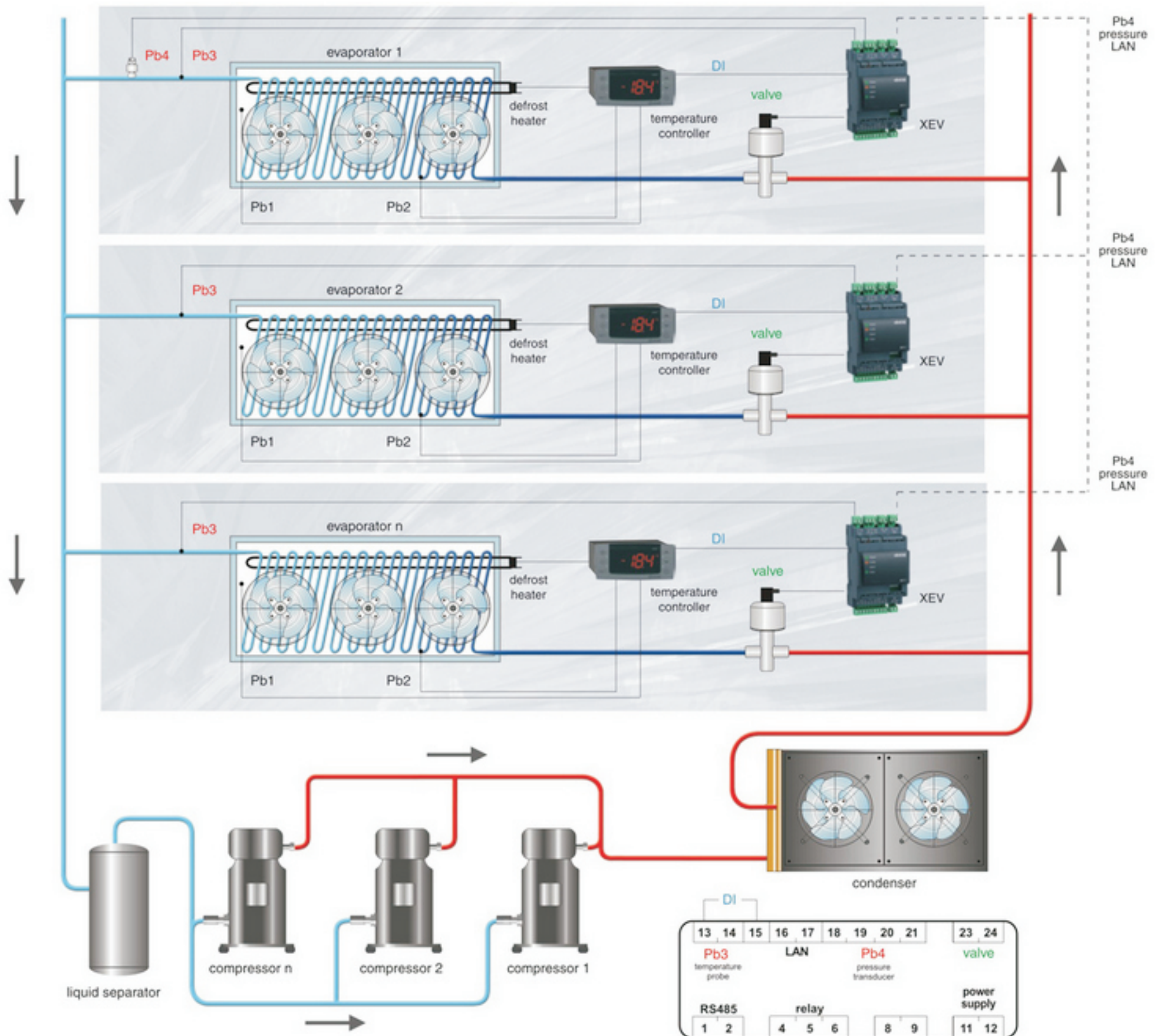
Refrigeration Circuit:

The diagram shows the different ways to connect the XEV drivers to a generic application like a single cooling unit or multiplexed cabinet. The valve is driven by the XEV module that is in turn commanded, by the activation of the digital input, from the temperature controller.

SINGLE SYSTEM: section 1 of the schematic diagram shows how connections would be arranged for a single cooling system.

MULTIPLEXED CABINET: to reduce installation costs, it is possible to use a single suction pressure transducer as shown in the overall schematic diagram.

This transducer's pressure signal is repeated to the other controllers across a digital LAN connection that guarantees optimal noise immunity.





Features :

	XEV11D	XEV12D	XEV21D	XEV22D
Kind of valves	ON/OFF	ON/OFF	stepper	stepper
Display: n° digits		± 3 d.p.		± 3 d.p.
Keyboard: push buttons		3		3
Power supply	24, 110, 230Vac	24, 110, 230Vac	24Vac/dc	24Vac/dc
Probe inputs				
Suction pressure	4÷20mA/0÷5V config	4÷20mA/0÷5V config	4÷20mA/0÷5V config	4÷20mA/0÷5V config
Suction temperature	Pt1000/NTC config	Pt1000/NTC config	Pt1000/NTC config	Pt1000/NTC config
Digital Input				
Free of voltage	pres	pres	pres	pres
High voltage	pres	pres	pres	pres
Relay outputs				
Alarm	8A config	8A config	8A config	8A config
Other				
Valve driver output up to 30W	pres	pres		
Hot Key/Prog Tool Kit output	pres	pres	pres	pres
Remote keyboard output	KB1-PRG		KB1-PRG	
Serial output	RS485	RS485	RS485	RS485
Alarm recovery by LAN	pres	pres	pres	pres
Buzzer	opt	opt		