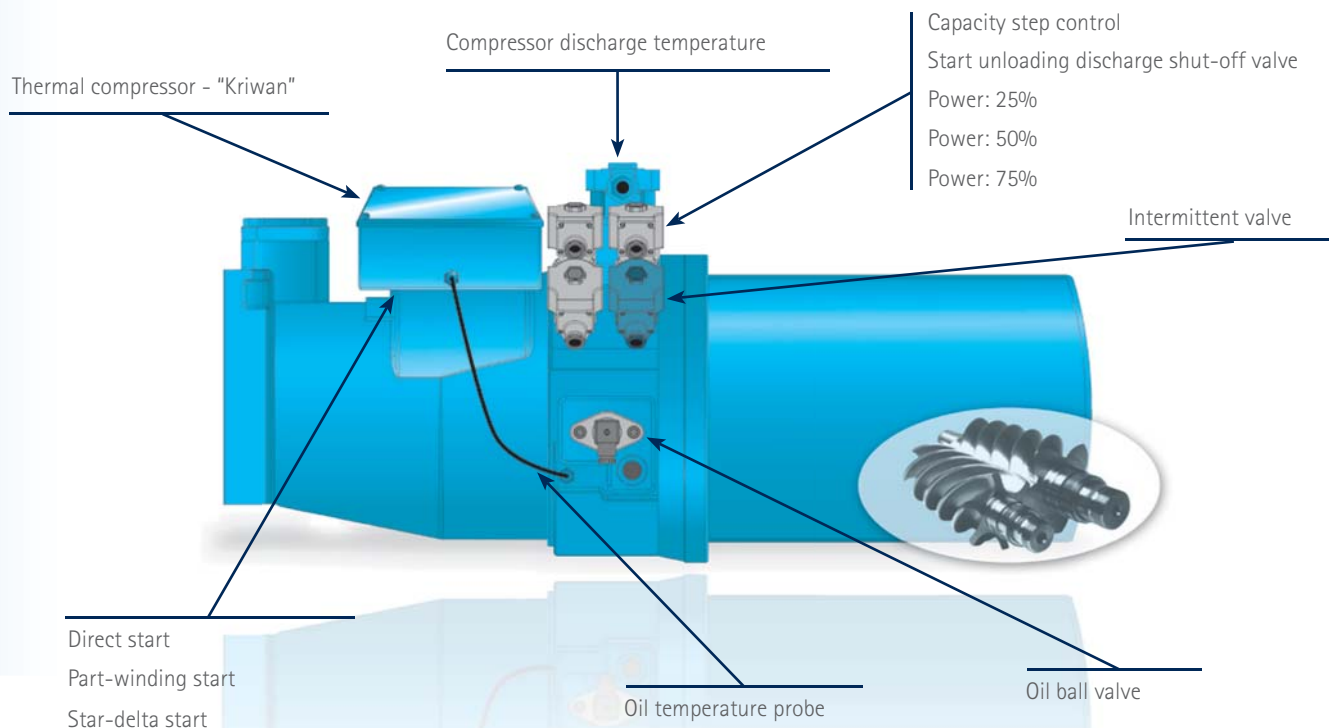


SCREW COMPRESSOR MANAGEMENT

Thanks to its high flexibility the XC200L can manage in the best way all the variables for a screw compressor as shown in the pictures below.

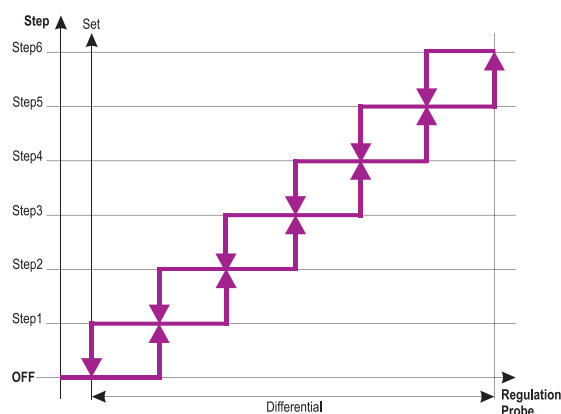


In addition:

- thermal compressor alarm management also with unit in stand-by
- cooling liquid injection with PTC probe
- high temperature alarm of the compressor discharge side with PTC probe
- oil alarm management from pressure switch or ball valve also with unit in stand-by

PROPORTIONAL BAND ADJUSTMENT

As the pressure/temperature increases and passes the various stages (step1, step2, ...), the controller activates each load. As the pressure/temperature decreases, the loads are turned off. This way, above the adjustment band all the compressors will be running, while below the band they will all be off. The switching on and off of the loads is carried out in such a way as to balance the run hours/number of start-up per hour. The graph shows, in a simplified way, the adjustment algorithm with 6 equal loads.



NEUTRAL ZONE ADJUSTMENT

A pressure/temperature value (set-point) and a band can be programmed. Within this band a state of system equilibrium can exist, where the instrument will maintain the status of the outputs. If the pressure moves outside this band the switching on and off of available outputs begins, subject to delays set in dedicated parameters, always respecting the protection times of each compressor. The graph illustrates, in a simplified way, neutral zone regulation with equal loads.

