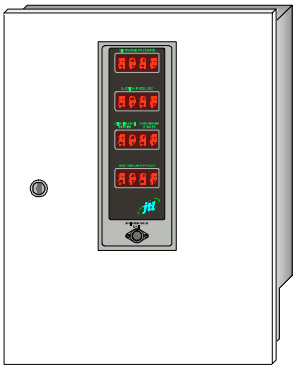
COMPRESSOR PACK CONTROLLER CP4C



Type CP4C is a unit suitable for the control of integrated compressor packs and associated condensing and defrost systems. The unit measures up to **3 suction pressures** and maintains each pressure within adjustable limits by running or stopping compressors or by including or excluding steps of compression as appropriate. **Discharge pressure** is also monitored and is maintained within adjustable limits by increasing or decreasing steps of condensing as appropriate.

Type CP4C guards against compressor short-cycling, aims to maintain total running hours for the compressors equal throughout the lifetime of the pack and **monitors fault conditions** on each compressor.

Type CP4C may be used for externally compounded packs with a controlled satellite or standard dual temperature packs.

Up to 6 defrosts per day can be achieved on each of the refrigeration systems associated with the pack by setting a schedule of defrost start times, defrost durations and defrost patterns.

Compressors, **condensers** and **defrosts** are controlled and monitored by connecting JTL compressor pack interface units to CP4C (see separate sheet IFx-x for details).

Suction and discharge pressures together with simple alarm messages can be indicated locally using JTL display units. Type CP4C provides comprehensive **alarm reporting**, **data-logging**, remote data access and remote control of defrosts at JTL refrigeration controllers when connected to a JTL Communications Unit.

FEATURES

- Controls up to 10 compressors (up to 3 steps per compressor)
- JTL pack interface communication
- JTL Network communications
- Controls up to 7 steps of condensing
- Variable fan speed control
- Default data set-up switches
- Controls up to 28 defrost systems
- 6 defrosts a day/system
- Non-volatile set-up memory
- Pressure and temperature measurement inputs
- Watchdog to ensure reliable operation
- 4 four digit LED displays
- Battery supported data-logging
- Maintenance Unit socket
- Short cycle protection
- Balancedrun hours
- Controlled start up
- Satellite control
- Multiple suction control

HARDWARE

- Pressure transducer inputs 4
- Temperature probe inputs 7
- Probe types supported . . . . . JTL
- Pressure display drives 4
- Voltage-free contact outputs 2
- Optically isolated high voltage inputs . . . . . 2 (240 V max)
- Data-logging memory capacity . . . . . 900 points on 4 channels

TECHNICAL SPECIFICATION

Pressure input 1	Satellite suction pressure
Pressure input 2	Discharge pressure
Pressure input 3	HT suction pressure
Pressure input 4	LT suction pressure
Temperature input 1	LT suction gas temperature
Temperature input 2	HT suction gas temperature
Temperature input 3	Discharge gas temperature
Temperature input 4	Satellite suction gas temp.
Temperature input 5	Sub-cooled liquid temperature
Temperature input 6	Saturated gas temperature
Temperature input 7	Plant room temperature
Output 1	Gas dump valve control
Output 2	Saturated gas temperature control
Relay output rating	2A resistive (240 V max.)
Communications port	RS485 2 wire
Communications data rate	600/4800 baud (auto selected)
Communications protocol	JTL zone protocol
Input 1	Auto/manual control switch
Input 2	Low liquid level
Dimensions	347 x 456 x 86 mm
Weight	6 kg
Power supply (standard)	230 V 48-62 Hz
(optional)	110 V

ORDERING INFORMATION

CP4C-BD . . . . . Boxed with display

Power Supply Options:

For 110 V append - 110 to order code

CE

This unit conforms with the relevant EU standards when fitted in accordance with its installation instructions.

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