



A LEGEND IN PROGRESS





- THE COMPRESSOR IS THE MOST CHALLENGED PART IN A REFRIGERATION SYSTEM
- COMPRESSOR INDUSTRY OFTEN FOLLOWS AUTOMOTIVE INDUSTRY TREND
- AUTOMOTIVE INDUSTRY PROGRESSIVELY INTRODUCED COMPONENT DOWNSIZING

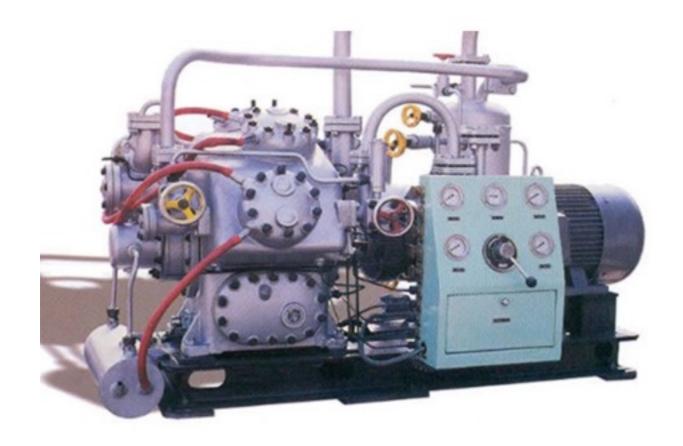






## NATURAL REFRIGERANTS BASED SOLUTIONS - BUSINESS IN CHINA

- TO DATE HFCs & NH3 ARE THE MOST COMMON CHOICES IN INDUSTRIAL APPLICATIONS
- HFCs ARE NO LONGER TO BE CONSIDERED
- CO<sub>2</sub> IS APPROACHING THIS MARKET AND ALLOWING FOR COMPONENT DOWNSIZING
  - SAME AS IT HAPPENED IN THE AUTOMOTIVE INDUSTRY



- AMMONIA COMPRESSOR -

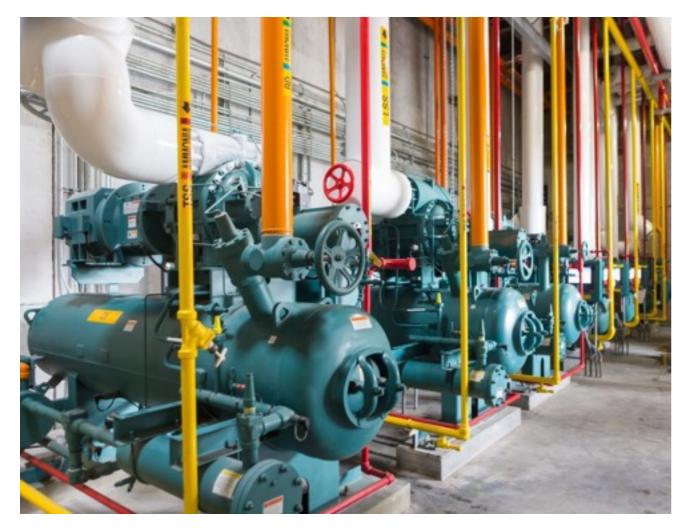


- CO<sub>2</sub> COMPRESSOR -



## OPPORTUNITIES & CHALLENGES IN CHINA: INDUSTRIAL REFRIGERATION

- SWITCHING TO CO<sub>2</sub> PROVIDES SIGNIFICANT ADVANTAGES:
  - CO<sub>2</sub> MACHINERY ROOM LOOKS MUCH LEANER
  - UP TO 2 MW REFRIGERTION DUTIES: ALREADY POSSIBLE IN A COST EFFECTIVE WAY





- AMMONIA MACHINERY ROOM -

- CO<sub>2</sub> MACHINERY ROOM -



- EXTEND CO<sub>2</sub> TRANSCRITICAL COMPRESSORS SIZES FURTHER:
  - LARGEST CO<sub>2</sub> TRANSCRITICAL COMPRESSOR AVALAIBLE TO DATE WORLDWIDE:
    - DORIN CD6 800-59M: 80 hp 60 m³/h
      - CO<sub>2</sub> IS COST EFFECTIVE UP TO 2 MW REFRIGERATION DUTIES
  - LARGER CO<sub>2</sub> TRANSCRITICAL COMPRESSORS UNDER DEVELOPMENT:
    - DORIN "GRAN COMPRESSORE": 500 hp 300 m<sup>3</sup>/h
      - CO<sub>2</sub> WILL BE COST EFFECTIVE UP TO 20 MW REFRIGERATION DUTIES
- PROVIDE THE MARKET WITH DEDICATED APPLICATION GUIDELINES & TRAINING
  - DORIN CAN TURN YOUR CO<sub>2</sub> JOURNEY IN A REAL SUCCESS

