

DOORIN[®]

1918



2018

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**



- TO DATE HFCs & NH₃ ARE THE MOST COMMON CHOICES IN INDUSTRIAL APPLICATIONS
- HFCs ARE NO LONGER TO BE CONSIDERED
- CO₂ IS APPROACHING THIS MARKET AND ALLOWING FOR COMPONENT DOWNSIZING
 - SAME AS IT HAPPENED IN THE AUTOMOTIVE INDUSTRY



– AMMONIA COMPRESSOR –



– CO₂ COMPRESSOR –

- **SWITCHING TO CO₂ PROVIDES SIGNIFICANT ADVANTAGES:**
 - **CO₂ MACHINERY ROOM LOOKS MUCH LEANER**
 - **UP TO 2 MW REFRIGERTION DUTIES: ALREADY POSSIBLE IN A COST EFFECTIVE WAY**



- AMMONIA MACHINERY ROOM -



- CO₂ MACHINERY ROOM -

- **EXTEND CO₂ TRANSCRITICAL COMPRESSORS SIZES FURTHER:**
 - **LARGEST CO₂ TRANSCRITICAL COMPRESSOR AVAILABLE TO DATE WORLDWIDE:**
 - **DORIN CD6 800-59M: 80 hp - 60 m³/h**
 - **CO₂ IS COST EFFECTIVE UP TO 2 MW REFRIGERATION DUTIES**
 - **LARGER CO₂ TRANSCRITICAL COMPRESSORS UNDER DEVELOPMENT:**
 - **DORIN "GRAN COMPRESSORE": 500 hp - 300 m³/h**
 - **CO₂ WILL BE COST EFFECTIVE UP TO 20 MW REFRIGERATION DUTIES**
- **PROVIDE THE MARKET WITH DEDICATED APPLICATION GUIDELINES & TRAINING**
 - **DORIN CAN TURN YOUR CO₂ JOURNEY IN A REAL SUCCESS**



Business Case for
Natural Refrigerants

11-12/04/2018 – Beijing

Thank you very much!

