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CONCLUSIONS; ACKNOWLEDGMENT; REFERENCES; Performance and suitability comparisons of some R22 possible substitute refrigerants; ABSTRACT; NOMENCLATURE; 1 INTRODUCTION; 2 COMPARISONS OF DIRECT ENVIRONMENTAL IMPACT; 3 COMPARISONS OF COMPATIBILITY WITH EXISTING R22 SYSTEMS; 4 COMPARISONS OF SYSTEM PERFORMANCES; 5 CONCLUSIONS; ACKNOWLEDGMENT; REFERENCE LIST; Oil level measurement in oil-injected screw compressor packages used in the petroleum, petrochemical, refrigeration and fuel gas;

ABSTRACT

1 OIL-INJECTED SCREW COMPRESSOR LUBRICATION OIL SYSTEM2 LEVEL MEASUREMENT TECHNOLOGIES; 3 CONCLUSIONS; 4 REFERENCES;

Simulation of a cold climate heat pump furnished with a scroll compressor with multiple vapor injection lines; ABSTRACT;

NOMENCLATURE; 1 INTRODUCTION; 2 COMPRESSOR ANALYSIS AND SIMULATION; 3 CYCLE ANALYSIS; 4 COMPRESSOR SIMULATION WITH ONE PAIR OF INJECTION PORTS; 5 OPTIMIZATION OF VAPOR-INJECTED COMPRESSORS WITH ONE AND TWO INJECTION LINES; CONCLUSIONS; REFERENCES LIST; Compressor for exhaust treatment of non-road

vehicles; ABSTRACT; 1 INTRODUCTION; 2 COR® TECHNOLOGY

3 COR® COMPRESSOR4 DEVELOPMENT OF PLASTIC ROTORS FOR THE COR® COMPRESSOR; 5 CONCLUSION; 6 OUTLOOK; 7 REFERENCE LIST;

Screw pulsation generation and control: a shock tube mechanism;

ABSTRACT; NOMENCLATURE; 1. INTRODUCTION; 2. SCREW PULSATION GENERATION MECHANISM: A SHOCK TUBE THEORY; 3. PULSATION CONTROL: PULSATION TRAP METHOD; 4. CONCLUSIONS AND

DISCUSSIONS; ACKNOWLEDGEMENTS; REFERENCES; Numerical analysis of unsteady behaviour of a screw compressor plant system; ABSTRACT;

NOMENCLATURE; 1. INTRODUCTION; 2. MATHEMATICAL MODEL OF THE SCREW COMPRESSOR PLANT

3. EXPERIMENTAL VERIFICATION OF THE RESULTS OBTAINED FROM THE MATHEMATICAL MODEL

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### Sommario/riassunto

This book contains the papers from the 2013 International Conference on Compressors and Their Systems, held from 9-10 September at City University London. The long-running conference series is the ultimate global forum for reviewing the latest developments and novel approaches in compressor research. High-quality technical papers are sourced from around the globe, covering technology development, operation, maintenance and reliability, safety and environmental impact, energy efficiency and carbon footprint, system integration and behaviour, upgrades and refurbishment, design and manufacture, e

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