

# EMERSON ZF06K4E ZF Refrigeration Scroll Compressors Instruction Manual

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## Introduction

The low temperature application of ZF\* Copeland Scroll™ compressors with refrigerants R407A, R407F, R448A or R449A requires the use of dedicated injection technologies in order to provide excellent compressor efficiencies and to keep the operation within safe limits.

**Depending on the ZF\* Copeland Scroll compressor family, the following injection systems can be used:**

Compressor family	Liquid injection	Vapour injection	Vapour + liquid injection
ZF06K4E to ZF18K4E	X		
ZF(D)13KVE to ZF(D)25KVE		X	X
ZF25K5E to ZF49K5E ZFD41K5E	X	X	X


The ZF\*K4E range of compressors would need to be equipped with liquid injection by the usage of a DTC valve. Compressor models ZF(D)13KVE to ZF(D)25KVE are vapour injection only. Liquid injection alone is not possible. Compressor models ZF25K5E to ZF49K5E and ZFD41K5E are designed and applicable for both liquid injection and vapour injection (EVI).

For compressor models ZF(D)13KVE to ZF(D)25KVE, ZFD41K5E and ZF25K5E to ZF49K5E applied with vapour injection, the operation envelope can be increased by the usage of wet vapour injection. Wet vapour injection is a combination of vapour and liquid injection at the same time and can be used in order to operate the scroll compressors in a larger application envelope.

For corresponding operation envelopes, please refer to the compressor technical data, such as Emerson Select Software.

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## Documents / Resources



The thumbnail shows the cover of the instruction manual for Emerson ZF06K4E ZF Refrigeration Scroll Compressors. It includes the Emerson logo, the product name, and a table of contents.

**EMERSON ZF06K4E ZF Refrigeration Scroll Compressors** [pdf] Instruction Manual  
ZF06K4E ZF Refrigeration Scroll Compressors, ZF06K4E, ZF Refrigeration Scroll Compressors  
, Refrigeration Scroll Compressors, Scroll Compressors, Compressors

## References

- [C Copeland is Engineered for Sustainability | Copeland GB](#)
- [C Copeland is Engineered for Sustainability | Copeland GB](#)
- [User Manual](#)

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