

# Emerson Variable Speed Bundle

for refrigeration applications



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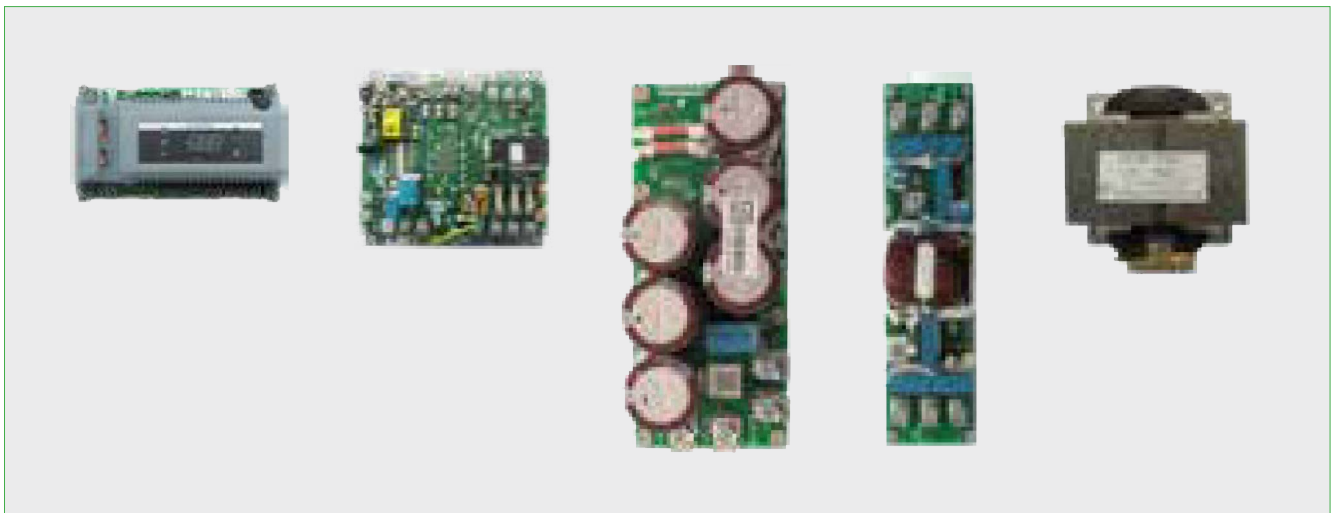
  
**EMERSON™**

# Emerson Variable Speed Bundle

The Emerson variable speed bundle is Emerson's latest solution offering developed for our partners with specific requirements for variable speed capacity modulated medium temperature condensing units using R410A.







Applications include refrigeration for convenience stores, supermarkets and small cold rooms.

Long term engineering and manufacturing experience combined with innovative technologies now unleash new opportunities in variable speed medium temperature refrigeration applications.





## Key features

Compressor	Controller	Drive	Capacitor Board	Filter Board	Three Phase			
					Choke Qty	Harmonic	Cost	Efficiency
						☺	☹	Less Efficient
						☹	☺	Baseline 100%
					Single Phase			
					Choke Qty	Harmonic	Cost	Efficiency
						☺	☺	☺

## Specifications

Bundle		ZBW030 Emerson Bundle	ZBW038 Emerson Bundle	Features	Benefits
Emerson variable speed compressor	Model	ZBW030DP	ZBW038DP	Emerson variable speed compressor	<ul style="list-style-type: none"> <li>High liquid handling capacity</li> <li>Low vibration and noise</li> <li>High efficiency and increased capacity due to vapor injection technology</li> </ul>
	Max Capacity	9kW/5400-2400RPM	11.5kW		
	ET/AT/RGT: -10 °C/40 °C/18 °C	7.5kW/4500-1800RPM			
	Injection Technology	Vapor Injection			
	Motor Code <sup>1</sup>	3X9, 4X9		Emerson controller and drive	<ul style="list-style-type: none"> <li>Intelligent store solution- monitoring and enhanced energy savings</li> <li>Improved user interface</li> <li>Diagnostics protection capabilities</li> <li>Alarm history display</li> </ul>
Controller		Emerson CoreSense			
Drive	Single Phase	5.5kW Fin Vertical W/ Cap Board 8.0kW Fin Vertical W/ Cap Board			
	Three Phase	5.5kW Fin Vertical 8.0kW Fin Vertical			
Capacitor board	Single Phase	-			
	Three Phase	3Ph 380~ 400V 8.0kW			
Filter Board		3Ph 400V AC			
Choke	1Phase	1Pcs Harmonic			
	3Phase	1 Pcs Harmonic	3Pcs		

1: 3X9: 380VDC bus voltage is for 220V line voltage  
4X9: 520VDC bus voltage is for 380V line voltage



# Application in Convenience Stores

	Typical Convenience Store Set-Up			Emerson's Solution
	Open multi-desk for dairy products	Lunch case	Walk-in cooler	Emerson variable speed bundle
Type 1 Evaporator load of: 7.0kW	3050mm (3.0kW)	1220mm (1.4kW)	4Doors (2.6kW)	ZBW030 Emerson bundle - 7.5kW
	Competitor's variable speed CDU - 7.5kW			
Type 2 Evaporator load of: 8.7kW	3660mm (4.5kW)	1220mm (1.6kW)	4Doors (2.6kW)	ZBW030 Emerson bundle - 9.3kW
	Competitor's variable speed CDU - 7.5kW		Competitor's variable speed CDU - 3.0kW	
Type 3 Evaporator load of: 9.3kW	3660mm (4.5kW)	1220mm (1.6kW)	6Doors (3.2kW)	ZB038 Emerson bundle - 11.8kW
	Competitor's variable speed CDU - 6.0kW		Competitor's variable speed CDU - 4.5kW	



## General information

Technical data are correct at the time of printing. Updates may occur, and should you need confirmation of a specific value, please contact Emerson clearly stating the information required.

Emerson cannot be held responsible for errors in capacities, dimensions, etc., stated herein. Products, specifications and data in this literature are subject to change without notice.

The information given herein is based on data and tests which Emerson believes to be reliable and which are in accordance with today's technical knowledge. It is intended for use by persons having the appropriate technical knowledge and skill, at their own discretion and risk. Our products are designed and adapted for fixed locations. For mobile applications, failures may occur.

The suitability for this has to be assured from the plant manufacturers, which may include making appropriate tests.

### Note:

The components listed in this catalogue are not released for use with caustic, poisonous or flammable substances. Emerson cannot be held responsible for any damage caused by using these substances.

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