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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 manufacturer, 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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Contact lists

Emerson Commercial & Residential Solutions

Asia Pacific Headquarters

Emerson Climate Technologies
Suite No. 2503-8, 25/F,
Exchange Tower, 33 Wang Chiu Road,
Kowloon Bay, Kowloon, Hong Kong
Tel: (852) 2866 3108
Fax: (852) 2520 6227

Australia

Emerson Climate Technologies
Australia Pty Ltd
356 Chisholm Road
Auburn NSW 2144, Australia
Tel: (612) 9795 2800
Fax: (612) 9738 1699

China - Beijing

Emerson Climate Technologies
(Suzhou) Co. Ltd
Beijing Sales Office
Room 1017 JianWei Building,
66 Nan Lishi Road, XiCheng District,
Beijing, PRC
Tel: (8610) 5763 0488
Fax: (8610) 5763 0499

China - Guangzhou

Emerson Climate Technologies
(Suzhou) Co. Ltd
Guangzhou Sales Office
508-509 R&F Yinglong Plaza,
No. 76 Huangpu Road West,
Guangzhou, PRC
Tel: (8620) 2886 7668
Fax: (8620) 2886 7622

China - Shanghai

Emerson Climate Technologies
(Suzhou) Co. Ltd
Shanghai Sales Office
7F, Emerson Building, 1582 Gumei
Rd, Shanghai, PRC
Tel: (8621) 3338 7333

India - Mumbai

Emerson Climate Technologies (India) Ltd
Delphi B-Wing, 601-602, 6th Floor
Central Avenue, Hiranandani Business Park,
Powai, Mumbai 400076
Tel: (9122) 6786 0793
Fax: (9122) 6662 0500

India - Pune

Emerson Climate Technologies (India) Ltd
Plot No. 23, Rajiv Gandhi Infotech Park,
Phase - II, Hinjewadi,
Pune 411 057, Maharashtra, India
Tel: (9120) 4200 2000
Fax: (9120) 4200 2099

Indonesia

PT Emerson Indonesia
BSD Taman Tekno 8
Jl. Tekno Widya Blok H10 No 2 & 3
Tangerang Selatan 15314
Indonesia
Tel: (6221) 2966 6242
Fax: (6221) 2966 6245

Japan

Emerson Japan Ltd
Shin-yokohama Tosho Building
No. 3-9-5 Shin-Yokohama, Kohoku-ku
Yokohama 222-0033 Japan
Tel: (8145) 475 6371
Fax: (8145) 475 3565

Malaysia

Emerson Electric (Malaysia) Sdn. Bhd.
Level M2, Blk A, Menara PKNS-PJ
Jalan Yong Shook Lin
46050 Petaling Jaya, Selangor, Malaysia
Tel: (603) 7949 9222
Fax: (603) 7949 9333

Middle East & Africa

Emerson Climate Technologies
PO Box 26382
Jebel Ali Free Zone - South
Dubai, UAE
Tel: (9714) 811 8100
Fax: (9714) 886 5465

Philippines

Emerson Climate Technologies
10/F SM Cyber West Avenue, EDSA cor. West
Avenue, Barangay Bungad, Diliman, Quezon
City 1105 Philippines
Tel: (632) 689 7200

Saudi Arabia

Emerson Arabia Inc.
P.O Box 34332 - 3620 Building 7874
Unit 1, 67th street 2nd Industrial City
Dammam, Saudi Arabia
Toll Free: 8008443426
Tel: + 966 3 8147560
Fax: + 966 3 8147570

South Korea

Emerson Electric Korea Ltd.
3F POBA Gangnam Tower
343, Hakdong-ro, Gangnam-gu,
Seoul 135-820, Republic of Korea
Tel: (822) 3483 1500
Fax: (822) 592 7883

Taiwan

Emerson Electric (Taiwan) Co. Ltd
3F No. 122 Lane 235,
Pao Chiau Rd., XinDian Dist.,
New Taipei City 23145, Taiwan (R.O.C.)
Tel: (8862) 8912 1360
Fax: (8862) 8912 1890

Thailand - Bangkok

Emerson Electric (Thailand) Ltd
34th Floor, Interlink Tower,
1858/133, Bangna Trad,
Bangkok 10260, Thailand
Tel: (662) 716 4700
Fax: (662) 751 4241

United Arab Emirates

Emerson Climate Technologies FZE
Jebel Ali Free Zone
PO Box 26382
Dubai UAE
Toll Free: 8004413428
Tel: + 971 4 8118100
Fax: + 971 4 8865465

Vietnam

Emerson Commercial & Residential Solutions
Level 6, Melinh Point Tower, 2 Ngo Due Ke,
District 1, Ho Chi Minh City
Vietnam
Tel: (84) 908 009 189

Emerson Variable Speed Bundle for Refrigeration Applications



EmersonClimateAsia.com

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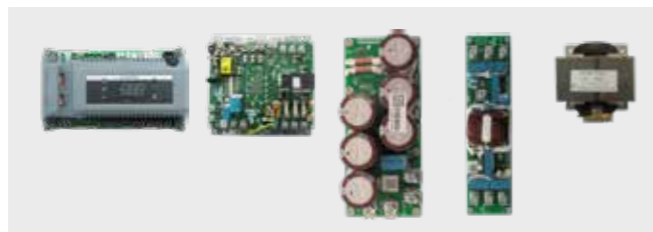
Emerson Variable speed bundle

Application in Convenience Stores

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
Emerson variable speed compressor	Model	ZBW030DP	ZBW038DP
	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 ¹	3X9 , 4X9	
Controller		Emerson CoreSense™	
Drive	SinglePhase	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	SingPhase	-	
	Three Phase	3Ph 380~400V 8.0kW	
Filter board		3Ph 400V AC	
Choke	1Phase	1Pcs Harmonic	
	3Phase	1Pcs Harmonic	3Pcs

Features	Benefits
Emerson variable speed compressor	<ul style="list-style-type: none"> High liquid handling capacity Low vibration & noise High efficiency and increased capacity due to vapor injection technology
Emerson controller & Drive	<ul style="list-style-type: none"> Intelligent store solution – monitoring and enhanced energy savings Improved user interface Diagnostic protection capabilities Alarm history display

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

	Typical Convenience Store Set-up			Emerson's Solution
	Open multi-desk for dairy products	Lunch case	Walk-in cooler	
Type 1 Evaporator load of: 7.0kW	3050mm (3.0kW)	1220mm (1.4kW)	4Doors (2.6 kW)	Emerson variable speed 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	

