

YORK® GRANDE SERIES AIR CONDITIONERS

FAMILY-FRIENDLY AIR CONDITIONERS FOR TODAY'S SMART GENERATION



 **YORK**[®]
BY JOHNSON CONTROLS

Johnson
Controls 

Johnson Controls is the global leader
that creates smart environments -
bringing ingenuity to the places
where people live, work and travel.



On the cover

Integrated professional services
designed for your unique business
need.

We care about your business and
understand that each business has
its unique requirements. Our
all-encompassing maintenance
package is tailor-made to fit your
every financial and technical need.
It covers from planned routine
equipment inspections and
predictive maintenance routines to
system performance checks and
annual shutdowns.

Grande Series Indoor Unit



Lifestyle

Designed to suit your stylish and modern lifestyle, the Grande Series indoor unit's sleek flat panel design in tasteful off-white will elegantly match your home interior.



Bright LED

Bright and crisp LED light display shows the temperature and function settings clearly. Deactivate the LED display using the remote control whenever you wish.



Wireless Remote Controller

Attractive backlit illuminated LCD wireless remote controller clearly displays the temperature and other function settings. Adjusting the air-conditioner settings in the dark has never been so convenient.



Creating a Healthier Environment



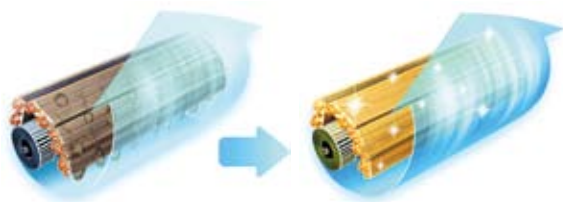
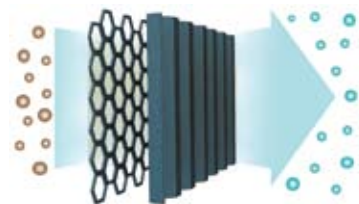
Negative Ionizer

The built-in ionizer produces negative oxygen ions that help to improve our blood circulation and respiratory functions, thus helping to prevent respiratory diseases such as asthma and pneumonia. Further, ionizers at high static produces anions that can eliminate dust and smoke in our blood circulation system, improving lung function and effectively prevent respiratory passage illnesses such as asthma and pneumonia. Further, ionizers at high static produces anions that can eliminate dust and smoke in our homes.



Formaldehyde Filter

Effectively filter out formaldehyde and other volatile organic compounds (VOCs) such as odour from new paint, new furniture and harmful gases, etc. This brings you healthier air and creates a safer environment for your family.



Self-Cleaning Anti-Mold & Bacteria

When the unit is switched off, the drying operation will be automatically activated to dry out the coil and internal surfaces. This drying out process helps prevent the growth of molds and minimize the possibility of bacterial cultivation within the indoor unit - an important feature to keep your family healthy.

Unique Features for a More Comfortable Environment

Follow Me

"Follow Me" is a unique built-in feature in the remote controller. When activated, the indoor unit will sense the setting temperature according to where the remote controller is placed, resulting in more precise cooling.



The diagram shows a 'COOLING' mode interface with a 'Preset Temp.' slider and a 7-hour timer. The temperature rises 1°C in the first hour, rises another 1°C in the second hour, and then holds steady for the next 5 hours before switching off. Below the diagram is a photograph of a modern bedroom with a bed, nightstands, and a potted plant.

Sleep Mode

The Sleep Mode feature increases the room temperature setting automatically by 1° C after the first and second hour, thereafter holding a steady set temperature for another five hours before switching off, providing you with a comfortable night sleep and ensuring maximum energy efficiency.

Turbo

With the Turbo Feature, you can achieve the set room temperature in the shortest possible time. At the onset, the Turbo feature runs the fan speed to high and adjust coolness to attain comfort for you and your loved ones.



Efficient Air Conditioners

Twin Rotary DC Inverter 180° Sine Wave*

You will greatly benefit from the Excellent Energy Savings Rating, ensuring optimal temperature at economical running cost. The 180 ° Sine Wave DC Inverter offers you considerable advantages:

1. Caters to a wider range of frequency and voltage parameters
2. Performs efficiently so that you will gain better energy savings
3. Runs smoothly with minimum vibration to achieve very low noise.
4. Operates reliably even with prolonged use.



Break through in inverter technology

A circular graphic with a green border. On the left, a pair of hands holds a small globe of the Earth. A green vine with leaves and a gear-like shape grows from the top of the globe. On the right, a man is carrying a young girl on his shoulders; the girl is holding a green plant. In the center, there is a small square icon with a globe and the text 'R410a'.

Environmental Friendly

What is even better- the compressor uses R410a refrigerant, which is zero ozone depletion potential, non-flammable and non-toxic, helping you do your part in protecting our earth.



* Twin Rotary DC Inverter Compressor only applies to all multi-splits, single 18 & 24 model only

Other Features

Auto/Cool/Dry/Fan Mode

Selection of mode according to user requirement

On/off Timer

Convenience of setting the on/off timing at once

Vertical Auto Air Swing

Rapid and even distribution of airflow for effective cooling

Wide Angle Horizontal Air Distribution Louvers

Even airflow distribution to all or specified corners of the room by adjusting the louvers

Auto Fan Speed

Fan speed automatically adjusts according to temperature setting and room condition

Auto Restart

Automatic restoration of previous settings when power is restored after each power failure

Independent Dehumidification

Efficient dehumidification without affecting the room cooling temperature or environment

Hydrophilic Blue Fin on Outdoor Unit

Prolong lifespan of outdoor unit with unique Anti-Corrosion Proofing

Auto 3-Min Delay Safety Control

Compressor Protection for longer lifespan, in case of accidental switching 'on & off' of unit

Self Diagnosis Function

Electronic error detection and display of diagnosis for easy maintenance



Specifications

Multi Split Inverter - Indoor Unit

Abbreviated Indoor Model			YPHMXC009	YPHMXC012	YPHMXC018
Indoor Model			YPHMXC009BAMS-FX	YPHMXC012BAMS-FX	YPHMXC018BAMS-FX
Power Supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Capacity	Btu/h	9,000	12,000	18,000
	Input	watt	40	40	52
	Rated Current	A	0.19	0.19	0.24
Indoor Air Flow (Hi/Mi/Lo)		m ³ /h	500/350/250	500/350/250	860/800/570
Indoor Noise Level (Hi/Mi/Lo)		dB(A)	38/35/32	38/35/32	42/39/37
Indoor Unit	Dimensions (W x D x H)	mm	790 x 198 x 265	790 x 198 x 265	920 x 223 x 292
	Packing (W x D x H)	mm	875 x 265 x 335	875 x 265 x 335	1,015 x 295 x 368
	Net / Gross Weight	Kg	9 / 11	9 / 11	11.5 / 15
	Liquid Side / Gas Side	inch	1/4", 3/8"	1/4", 1/2"	1/4", 1/2"

Multi Split Inverter - Outdoor Unit

Abbreviated Outdoor Model			3YC021	4YC028	4YC032
Outdoor Model			YPH3YC021BAMSA-X	YPH4YC028BAMSA-X	YPH4YC032BAMSA-X
Power Supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Capacity	Btu/h	20,470 (8,871-24,566)	26,610 (9,212-31,049)	29,000 (9,212-34,734)
	Rated Input	W	1,750 (680-2,428)	2,300 (703-3,056)	2,500 (703-3,307)
	Rated Current	A	8.0 (2.95-10.56)	10.30 (3.06-13.29)	11.30 (3.06-14.38)
	Energy Label	Ticks	√√	√√	√√
Max. Input Consumption		W	2,200	3,100	4,300
Max. Current		A	11	15	20
Outdoor Air Flow		m ³ /h	1,660	2,280	2,100
Outdoor Noise Level		dB(A)	41	55	60
Outdoor Unit	Dimensions (W x D x H)	mm	845 x 335 x 695	845 x 335 x 695	895 x 330 x 860
	Packing (W x D x H)	mm	965 x 395 x 755	965 x 395 x 755	1,043 x 395 x 915
	Net / Gross Weight	Kg	54 / 58	58 / 62	73 / 77
Refrigerant Type / Charge		g	R410A / 1.3	R410A / 2.42	R410A / 2.6
Refrigerant piping	Liquid Side / Gas Side	inch	1/4", 3/8" (3x)	1/4", 3/8" (4x)	1/4", 3/8" (4x)
	Transfer Connector (3/8" → 1/2")	Qty	2	2	3
	Max. Refrigerant Pipe Length (Each Indoor Unit)	m	20	20	20
	Max. Difference in Level (Each Indoor Unit)	m	8	8	8
Operation Temp		°C	17-30	17-30	17-30

Specifications

Single Split Inverter

Abbreviated Set Model		Set	YPHJZC009	YPHJZC012	YPHJZC018	YPHJZC024
Indoor Model		Indoor	YPHJXC009BAMS-FX	YPHJXC012BAMS-FX	YPHJXC018BAMS-FX	YPHJXC024BAMS-FX
Outdoor Model		Outdoor	YPHJYC009BAMSA-X	YPHJYC012BAMSA-X	YPHJYC018BAMSA-X	YPHJYC024BAMSA-X
Power Supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Capacity	kw	9,000 (2,047-11,260)	12,000 (3,753-13,648)	17,090 (8,871-21,837)	22,800 (1,1942-25,913)
	Rated Input	W	690 (240-1,080)	920 (320-1,400)	1,465 (780-2,300)	1,950 (820-2,500)
	Rated Current	A	3.2 (1.2-5.4)	4.4 (1.7-6.5)	6.7 (3.4-10.3)	10.0 (3.6-11.2)
	Energy Label	Ticks	√√	√√	√√	√√
Moisture Removal		L/h	1.0	1.2	1.8	2.6
Max. Input Consumption		W	1,950	2,100	3,200	2,950
Max. Current		A	9	9.5	14.5	13.5
Indoor Air Flow (Hi/Mi/Lo)		m ³ /h	600/470/400	800/650/580	1,150/970/900	1160/1,000/950/760
Indoor Noise Level (Hi/Mi/Lo)		dB(A)	38/33/29	39/34/29	49/46/43	50/44/41
Indoor Unit	Dimensions (W x D x H)	mm	790 x 198 x 265	918 x 223 x 292	998 x 235 x 322	998 x 240 x 322
	Packing (W x D x H)	mm	875 x 265 x 335	1,015 x 295 x 368	1,080 x 400 x 320	1,080x400x320
	Net / Gross Weight	Kg	8.5/10.5	11.5/15	13/16	13/17
Outdoor Air Flow		m ³ /h	1,800	1,800	2,500	3,500
Outdoor Noise Level (Hi/Mi/Lo)		dB(A)	55	55	56	58
Outdoor Unit	Dimensions (W x D x H)	mm	760 x 285 x 590	760 x 285 x 590	845 x 335 x 695	900 x 315 x 860
	Packing (W x D x H)	mm	887 x 355 x 645	887 x 355 x 645	965 x 395 x 755	1,043x 395 x 915
	Net / Gross Weight	Kg	35.5/39	36/40	44/48	72/76
Refrigerant Type / Charge		g	R410A / 930g	R410A / 1,070g	R410A / 1,180g	R410A / 2,300g
Design Pressure		MPa	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5	4.2 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	inch	1/4", 3/8"	1/4", 1/2"	3/8", 5/8"	3/8", 5/8"
	Max. Refrigerant Pipe Length	m	20	20	25	25
	Max. Difference in Level	m	8	8	10	10
Operation Temp		°C	17-30	17-30	17-30	17-30

Kindly note abbreviated models are stated for ease of reference. Actual unit will bond the actual model.
Above specification is based on nominal conditions of - Indoor temperature 27 °C CB, 19 °C WB Outdoor temperature 35°C DB, 24°C WB

System 3 3YC021 - No Current Limitation

Abbreviated Outdoor Model		3YC021									
Model		YPH3YC021BAMSA-X									
		Cooling Capacity (kw)				Running Current (amp)			Input (kw)		
Operation	Indoor	A Room	B Room	C Room	Total	Min.	Rated	Max.	Min.	Rated	Max.
1 Room	9	2.60			2.60	2.95	4.61	5.54	0.68	1.06	1.27
	12	3.20			3.20	3.04	5.57	6.68	0.70	1.28	1.54
	18	5.30			5.30	3.41	8.53	10.24	0.79	1.96	2.36
2 Rooms	9+9	2.60	2.60		5.20	3.12	7.07	9.04	0.72	1.63	2.08
	9+12	2.69	3.31		6.00	3.21	7.79	9.97	0.74	1.79	2.29
	9+18	2.29	4.66		6.95	3.36	8.39	10.07	0.77	1.93	2.32
	12+12	3.19	3.19		6.38	3.22	8.04	9.65	0.74	1.85	2.22
	12+18	2.80	4.18		6.98	3.52	8.80	10.56	0.81	2.02	2.43
3 Rooms	9+9+9	2.32	2.32	2.32	6.95	3.36	8.39	10.07	0.77	1.93	2.32
	9+9+12	2.20	2.20	2.74	7.14	3.45	8.62	10.18	0.79	1.98	2.34
	9+9+18	1.80	1.80	3.57	7.17	3.46	8.66	10.22	0.80	1.99	2.35
	9+12+12	1.95	2.62	2.62	7.19	3.47	8.68	10.25	0.80	2.00	2.36
	12+12+12	2.40	2.40	2.40	7.20	3.48	8.70	10.26	0.80	2.00	2.36

Specifications

System 3 3YC021 - 8.5 Amp Current Limitation

Abbreviated Outdoor Model		3YC021									
Model		YPH3YC021BAMSA-X									
		Cooling Capacity (kw)				Running Current (amp)			Input (kw)		
Operation	Indoor	A Room	B Room	C Room	Total	Min.	Rated	Max.	Min.	Rated	Max.
1 Room	9	2.60			2.60	2.95	4.61	5.54	0.68	1.06	1.27
	12	3.20			3.20	3.04	5.57	6.68	0.70	1.28	1.54
	18	5.30			5.30	3.35	8.38	8.50	0.77	1.93	1.96
2 Rooms	9+9	2.60	2.60		5.20	3.12	7.07	8.50	0.72	1.63	1.96
	9+12	2.69	3.30		5.99	3.21	7.77	8.50	0.74	1.79	1.96
	9+18	2.29	4.70		6.99	3.38	8.44	8.50	0.78	1.94	1.96
	12+12	3.19	3.20		6.39	3.22	8.05	8.50	0.74	1.85	1.96
	12+18	2.80	4.20		7.00	3.38	8.45	8.50	0.78	1.94	1.96
3 Rooms	9+9+9	2.32	2.32	2.32	6.95	3.36	8.39	8.50	0.77	1.93	1.96
	9+9+12	2.20	2.20	2.60	7.00	3.35	8.38	8.50	0.77	1.93	1.96
	9+9+18	1.80	1.80	3.50	7.10	3.38	8.46	8.50	0.78	1.95	1.96
	9+12+12	1.90	2.60	2.60	7.10	3.38	8.46	8.50	0.78	1.95	1.96
	12+12+12	2.38	2.38	2.38	7.14	3.39	8.48	8.50	0.78	1.95	1.96

System 4 4YC028 - No Current Limitation

Abbreviated Outdoor Model		4YC028										
Model		YPH4YC028BAMSA-X										
		Cooling Capacity (kw)					Running Current (amp)			Input (kw)		
Operation	Indoor	A Room	B Room	C Room	D Room	Total	Min.	Rated	Max.	Min.	Rated	Max.
1 Room	9	2.70				2.70	3.06	4.79	5.75	0.70	1.10	1.32
	12	3.46				3.46	3.29	6.02	7.22	0.76	1.38	1.66
	18	5.35				5.35	3.51	8.78	10.53	0.81	2.02	2.42
2 Rooms	9+9	3.02	3.02			6.04	3.74	8.75	11.20	0.86	2.01	2.58
	9+12	2.81	3.45			6.26	3.87	9.07	11.61	0.89	2.09	2.67
	9+18	2.59	5.29			7.88	4.15	10.38	13.29	0.96	2.39	3.06
	12+12	3.65	3.65			7.30	3.97	9.92	12.70	0.91	2.28	2.92
	12+18	3.06	5.06			8.12	4.03	10.09	12.91	0.93	2.32	2.97
	18+18	4.51	4.51			9.02	4.48	11.20	13.22	1.03	2.58	3.04
3 Rooms	9+9+9	2.63	2.63	2.63		7.88	4.15	10.38	12.77	0.96	2.39	2.94
	9+9+12	2.51	2.51	3.09		8.12	4.03	10.09	12.10	0.93	2.32	2.78
	9+9+18	2.23	2.23	4.55		9.02	4.36	10.89	12.85	1.00	2.51	2.96
	9+12+12	2.50	3.08	3.08		8.65	4.18	10.45	12.75	0.96	2.40	2.93
	9+12+18	2.13	2.62	4.34		9.09	4.39	10.98	12.84	1.01	2.53	2.95
	9+18+18	1.82	3.64	3.64		9.10	4.40	10.99	12.86	1.01	2.53	2.96
	12+12+12	2.95	2.95	2.95		8.85	4.28	10.69	12.61	0.98	2.46	2.90
	12+12+18	2.58	2.58	3.86		9.02	4.36	10.89	12.75	1.00	2.51	2.93
4 Rooms	9+9+9+9	2.26	2.26	2.26	2.26	9.02	4.36	10.89	12.75	1.00	2.51	2.93
	9+9+9+12	2.15	2.15	2.15	2.64	9.09	4.39	10.98	12.84	1.01	2.53	2.95
	9+9+9+18	1.82	1.82	1.82	3.64	9.10	4.40	10.99	12.86	1.01	2.53	2.96
	9+9+12+12	1.95	1.95	2.60	2.60	9.10	4.40	10.99	12.86	1.01	2.53	2.96
	9+12+12+12	1.87	2.41	2.41	2.41	9.10	4.40	10.99	12.86	1.01	2.53	2.96

Specifications

System 4 4YC028 - 8.5 Amp Current Limitation

Abbreviated Outdoor Model		4YC028										
Model		YPH4YC028BAMSA-X										
		Cooling Capacity (kw)					Running Current (amp)			Input (kw)		
Operation	Indoor	A Room	B Room	C Room	D Room	Total	Min.	Rated	Max.	Min.	Rated	Max.
1 Room	9	2.70				2.70	3.06	4.79	5.75	0.70	1.10	1.32
	12	3.46				3.46	3.29	6.02	7.22	0.76	1.38	1.66
	18	5.35				5.35	3.51	8.49	8.50	0.81	1.95	1.96
2 Rooms	9+9	2.90	2.90			5.80	3.36	8.41	8.50	0.77	1.93	1.96
	9+12	2.50	3.30			5.80	3.36	8.41	8.50	0.77	1.93	1.96
	9+18	2.10	4.30			6.40	3.37	8.43	8.50	0.78	1.94	1.96
	12+12	3.10	3.10			6.20	3.37	8.42	8.50	0.78	1.94	1.96
	12+18	2.70	4.10			6.80	3.38	8.45	8.50	0.78	1.94	1.96
	18+18	3.50	3.50			7.00	3.38	8.45	8.50	0.78	1.94	1.96
3 Rooms	9+9+9	2.15	2.15	2.15		6.45	3.40	8.50	8.50	0.78	1.95	1.96
	9+9+12	2.00	2.00	2.83		6.83	3.39	8.48	8.50	0.78	1.95	1.96
	9+9+18	1.70	1.70	3.78		7.18	3.39	8.48	8.50	0.78	1.95	1.96
	9+12+12	1.84	2.60	2.60		7.04	3.40	8.50	8.50	0.78	1.96	1.96
	9+12+18	1.60	2.10	3.48		7.18	3.39	8.48	8.50	0.78	1.95	1.96
	9+18+18	1.40	2.93	2.93		7.26	3.39	8.49	8.50	0.78	1.95	1.96
	12+12+12	2.35	2.35	2.35		7.05	3.36	8.40	8.50	0.77	1.93	1.96
	12+12+18	2.00	2.00	3.23		7.23	3.40	8.50	8.50	0.78	1.95	1.96
4 Rooms	9+9+9+9	1.80	1.80	1.80	1.80	7.20	3.39	8.48	8.50	0.78	1.95	1.96
	9+9+9+12	1.70	1.70	1.70	2.13	7.23	3.40	8.50	8.50	0.78	1.95	1.96
	9+9+9+18	1.55	1.55	1.55	2.60	7.25	3.38	8.45	8.50	0.78	1.94	1.96
	9+9+12+12	1.60	1.60	2.05	2.05	7.30	3.39	8.46	8.50	0.78	1.95	1.96
	9+12+12+12	1.60	1.80	1.80	1.80	7.00	3.38	8.45	8.50	0.78	1.94	1.96

System 4 4YC032 - No Current Limitation

Abbreviated Outdoor Model		4YC032										
Model		YPH4YC032BAMSA-X										
		Cooling Capacity (kw)					Running Current (amp)			Input (kw)		
Operation	Indoor	A Room	B Room	C Room	D Room	Total	Min.	Rated	Max.	Min.	Rated	Max.
1 Room	9	2.70				2.70	3.06	4.79	5.75	0.70	1.10	1.32
	12	3.46				3.46	3.29	6.02	7.22	0.76	1.38	1.66
	18	5.84				5.84	3.76	9.40	11.29	0.86	2.16	2.60
2 Rooms	9+9	2.92	2.92			5.84	3.39	8.46	10.83	0.78	1.95	2.49
	9+12	2.62	3.22			5.84	3.39	8.46	10.83	0.78	1.95	2.49
	9+18	2.68	5.47			8.15	4.30	10.74	13.74	0.99	2.47	3.16
	12+12	3.14	3.14			6.28	3.41	8.53	10.92	0.79	1.96	2.51
	12+18	3.07	5.08			8.15	4.05	10.12	12.96	0.93	2.33	2.98
	18+18	4.65	4.65			9.30	4.62	11.55	13.63	1.06	2.66	3.14
3 Rooms	9+9+9	2.72	2.72	2.72		8.15	4.30	10.74	13.21	0.99	2.47	3.04
	9+9+12	2.52	2.52	3.10		8.15	4.05	10.12	12.15	0.93	2.33	2.79
	9+9+18	2.30	2.30	4.69		9.29	4.49	11.22	13.24	1.03	2.58	3.05
	9+12+12	2.82	3.47	3.47		9.75	4.71	11.78	14.37	1.08	2.71	3.30
	9+12+18	2.13	2.62	4.34		9.09	4.39	10.98	12.84	1.01	2.53	2.95
	9+18+18	2.06	3.84	3.84		9.74	4.71	11.76	13.76	1.08	2.71	3.17
	12+12+12	3.25	3.25	3.25		9.75	4.71	11.78	13.89	1.08	2.71	3.20
	12+12+18	2.74	2.74	3.81		9.29	4.49	11.22	13.24	1.03	2.58	3.05
4 Rooms	9+9+9+9	2.32	2.32	2.32	2.32	9.28	4.48	11.21	13.11	1.03	2.58	3.02
	9+9+9+12	2.31	2.31	2.31	2.84	9.77	4.72	11.80	13.81	1.09	2.71	3.18
	9+9+9+18	2.02	2.02	2.02	4.12	10.18	4.92	12.29	14.38	1.13	2.83	3.31
	9+9+12+12	2.20	2.20	2.72	2.72	9.84	4.75	11.88	13.90	1.09	2.73	3.20
	9+12+12+12	2.17	2.67	2.67	2.67	10.18	4.92	12.29	14.38	1.13	2.83	3.31

[Johnson Controls](#) is a global diversified technology and industrial leader serving customers in more than 150 countries. Our 170,000 employees create quality products, services and solutions to optimize energy and operational efficiencies of buildings; lead-acid automotive batteries and advanced batteries for hybrid and electric vehicles; and interior systems for automobiles. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. Through our growth strategies and by increasing market share we are committed to delivering value to shareholders and making our customers successful. In 2015, Corporate Responsibility Magazine recognized Johnson Controls as the #14 company in its annual "100 Best Corporate Citizens" list. For additional information, please visit www.johnsoncontrols.sg or follow [@johnsoncontrols](#) on Twitter.

[Johnson Controls Building Efficiency](#) delivers products, services and solutions that increase energy efficiency and lower operating costs in buildings for more than one million customers. Operating from 500 branch offices in more than 150 countries, we are a leading provider of equipment, controls and services for heating, ventilating, air-conditioning, refrigeration and security systems. We have been involved in more than 500 renewable energy projects including solar, wind and geothermal technologies. Our solutions have reduced carbon dioxide emissions by 16 million metric tons and generated savings of \$7.5 billion since 2000. Many of the world's largest companies rely on us to manage 1.5 billion square feet of their commercial real estate.

[Johnson Controls \(S\) Pte. Ltd.](#)

6 Changi Business Park Avenue 1,
#06-21/22 UE Bizhub East (North Tower),
Singapore 486017.
Tel : +65 6748 0202
Fax : +65 6284 3473
Email : be-sg-johnson.controls.marketing@jci.com

