New generation YVAA Air-cooled VSD screw chiller

Cooling capacities from 500 kW to 2000 kW





Features

- Greater flexibility with configurability
- Reduced footprint with maintained performance
- Improved peak efficiency

Heat exchanger performance

Sustainability. Minimise your environmental impact dramatically

Series flow evaporator



- Condenser design optimized for higher system efficiency
- New MCHX design improves heat transfer



- New brazed plate heat exchanger economizer
- Higher efficiency
- Greater flexibility for performance optimization
- -12°C to 21°C operating range













Also available with R134a



Options/Accessories

- BMS Interfacing options
- Advanced Controls (Silent Night, Quick Restart)
- Low temperature application options
- Dual pressure relief valves
- Flow switch
- Epoxy treatment Microchannel Coils
- Fan options
- Enclosure options
- Sound attenuation options
- Anti-vibration mounts options

EC fan



- Higher efficiency with variable speed drive EC motor fan
- Containerized option able to ship in a closed container saving freight cost
- Delivering real world annual energy consumption savings
- Sound Reduction

Air-cooled VSD screw chiller

YVAA-B 0571 to 1731

Application flexibility (*) example of selections



	0571	0586	0599	0616	0671	0686	0699	0701	0741	0754	0756	0769
kW	529.5	544.5	589.5	599.5	644.4	679.3	689.4	699.3	719.3	739.3	749.3	759.2
	3.09	3.20	3.21	3.25	3.11	3.13	3.22	2.88	3.06	3.15	3.19	3.29
	4.73	4.86	4.99	5.07	4.97	5.07	5.18	4.63	4.89	5.09	5.19	5.32
	186	192	197	200	196	200	204	182	193	201	205	210
dBA	96	95	96	96	96	97	97	94	95	95	95	97
kW	468.4	471.3	473.7	483.2	544.8	537.7	566.6	613.7	621.4	623.5	616.2	617.9
	3.30	3.44	3.55	3.60	3.25	3.32	3.43	2.97	3.12	3.28	3.28	3.35
	4.99	5.14	5.27	5.36	5.11	5.19	5.33	4.88	5.06	5.24	5.31	5.41
	196.6	202.6	207.6	211.6	201.4	204.5	210.3	192.2	199.2	206.7	209.5	213.3
dBA	100	100	100	100	101	101	101	101	101	101	101	101
	0782	0796	0809	0824	0866	0894	0919	0921	0924	0936	0949	1034
kW	779.3	789.3	799.2	819.2	859.2	899.1	909.1	919.3	929.1	949.3	969.3	1029
	3.18	3.26	3.33	3.15	3.26	3.07	3.17	3.07	3.21	3.14	3.19	3.24
	5.19	5.30	5.43	5.23	5.45	5.19	5.33	5.22	5.45	5.34	5.46	5.47
	205	209	214	206	215	205	210	206	215	211	216	216
dBA	98	98	97	96	96	98	97	97	97	99	98	98
kW	649.2	651.3	653.4	701.3	705.5	754.7	756.1	761.4	758.2	762.8	764.9	860.6
	3.31	3.40	3.47	3.28	3.43	3.28	3.36	3.30	3.43	3.38	3.44	3.30
	5.34	5.45	5.55	5.32	5.54	5.32	5.42	5.36	5.54	5.47	5.58	5.57
	210.6	215.1	219	209.9	218.7	214.4	213.8	211.4	218.5	215.6	220.4	219.8
dBA	101	101	101	101	102	102	102	102	102	102	102	103
	1076	1089	1134	1161	1174	1271	1381	1409	1549	1606	1649	1731
kW	1079	1099	1139	1159	1189	1269	1379	1449	1549	1599	1699	1899
	3.23	3.26	3.15	3.20	3.22	3.10	3.06	3.08	2.98	3.05	2.97	2.43
	5.54	5.58	5.35	5.43	5.51	5.43	5.41	5.52	5.37	5.51	5.49	4.87
	219	220	211	214	218	214	213	218	212	218	217	192
dBA	99	99	100	99	98	98	99	100	100	100	101	110
kW	862.7	864.8	958.3	960.1	962.2	1044.2	1143.0	1146.8	1326.6	1332.2	1336.1	-
	3.36	3.40	3.17	3.24	3.30	3.16	3.09	3.19	2.92	3.02	3.07	-
	5.66	5.71	5.5	5.6	5.69	5.52	5.52	5.66	5.42	5.58	5.64	-
	223.4	225.4	216.9	220.8	224.5	217.9	217.8	223.3	213.6	220.3	222.7	-
	dBA kW dBA kW dBA kW	kW 529.5 3.09 4.73 186 dBA 96 kW 468.4 3.30 4.99 196.6 dBA 100 0782 kW 779.3 3.18 5.19 205 dBA 98 kW 649.2 3.31 5.34 210.6 dBA 101 1076 kW 1079 3.23 5.54 219 dBA 99 kW 862.7 3.36 5.66	kW 529.5 544.5 3.09 3.20 4.73 4.86 186 192 dBA 96 95 kW 468.4 471.3 3.30 3.44 4.99 5.14 196.6 202.6 202.6 dBA 100 100 O796 kW 779.3 789.3 3.18 3.26 5.19 5.30 205 209 dBA 98 98 kW 649.2 651.3 3.31 3.40 5.34 5.45 210.6 215.1 dBA 101 101 1076 1089 kW 1079 1099 3.23 3.26 5.54 5.58 219 220 dBA 99 99 kW 862.7 864.8 3.36 3.40 5.66 5.71 <td>kW 529.5 544.5 589.5 3.09 3.20 3.21 4.73 4.86 4.99 186 192 197 dBA 96 95 96 kW 468.4 471.3 473.7 3.30 3.44 3.55 4.99 5.14 5.27 196.6 202.6 207.6 dBA 100 100 100 O796 0809 kW 779.3 789.3 799.2 3.18 3.26 3.33 5.43 205 209 214 48 dBA 98 97 99 kW 649.2 651.3 653.4 3.31 3.40 3.47 5.34 5.45 5.55 210.6 215.1 219 dBA 101 101 101 1076 1089 1134 kW 1079 1099<td>kW 529.5 544.5 589.5 599.5 3.09 3.20 3.21 3.25 4.73 4.86 4.99 5.07 186 192 197 200 dBA 96 95 96 96 kW 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207.6 211.6 201.4 204.5 210.3 dBA 100 100 100 101 101 101 101 101 101 101 101 101 101 408 79.3 789.3 799.2<!--</td--><td>kW 529.5 544.5 589.5 599.5 644.4 679.3 689.4 699.3 3.09 3.20 3.21 3.25 3.11 3.13 3.22 2.88 4.73 4.86 4.99 5.07 4.97 5.07 5.18 4.63 186 192 197 200 196 200 204 182 dBA 96 95 96 96 96 97 97 94 kW 468.4 471.3 473.7 483.2 544.8 537.7 566.6 613.7 3.30 3.44 3.55 3.60 3.25 3.32 3.43 2.97 4.99 5.14 5.27 5.36 5.11 5.19 5.33 4.88 196.6 202.6 207.6 211.6 201.4 204.5 210.3 192.2 dBA 100 100 100 101 101 101 101 kW</td><td>kW 529.5 544.5 589.5 599.5 644.4 679.3 689.4 699.3 719.3 3.09 3.20 3.21 3.25 3.11 3.13 3.22 2.88 3.06 4.73 4.86 4.99 5.07 4.97 5.07 5.18 4.63 4.89 186 192 197 200 196 200 204 182 193 dBA 96 95 96 96 96 97 97 94 95 kW 468.4 471.3 473.7 483.2 544.8 537.7 566.6 613.7 621.4 3.30 3.44 3.55 3.60 3.25 3.32 3.43 2.97 3.12 4.99 5.14 5.27 5.36 5.11 5.19 5.33 4.88 5.06 196.6 202.6 207.6 211.6 201.4 204.5 210.3 192.2 199.2 dBA</td><td>kW 529.5 544.5 589.5 599.5 644.4 679.3 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3.32 3.43 2.97 3.12 3.28 3.28 4.99 5.14 5.27 5.36 5.11 5.19 5.33</td></t<>	kW 529.5 544.5 589.5 599.5 644.4 679.3 689.4 699.3 719.3 739.3 749.3 3.09 3.20 3.21 3.25 3.11 3.13 3.22 2.88 3.06 3.15 3.19 4.73 4.86 4.99 5.07 4.97 5.07 5.18 4.63 4.89 5.09 5.19 186 192 197 200 196 200 204 182 193 201 205 dBA 96 95 96 96 96 97 97 94 95 95 95 kW 468.4 471.3 473.7 483.2 544.8 537.7 566.6 613.7 621.4 623.5 616.2 3.30 3.44 3.55 3.60 3.25 3.32 3.43 2.97 3.12 3.28 3.28 4.99 5.14 5.27 5.36 5.11 5.19 5.33

Net values at Eurovent nominal conditions for models using R1234ze and R513A: Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature. SEER calculated according to EN14511 and EN14825. Ecodesign figures are calculated following variable water and variable outlet approach (VW/VO). For other Ecodesign calculations, such as SEPR Medium and High

temperature for process application, please contact your JCI representative.

Technical data

YVAA-B			0571	0586	0599	0616	0671	0686	0699	0701	0741	0754	0756	0769
	Length	mm	5163	6274	73	97	6274	73	97	5163	6274	7397	8514	9631
Dimensions	Width	mm		2243										
	Height *	mm						23	58					
Operating wei	ght	kg	5268	6122	6516	6946	6198	6592	7021	5841	6234	6628	7022	6957
Refrigerant ch	arge	kg	69/69	75/75	81/81	89/89	82/69	89/75	97/83	70/70	76/76	82/82	89/89	95/95
YVAA-B			0782	0796	0809	0824	0866	0894	0919	0921	0924	0936	0949	1034
	Length	mm	7397	8514	9631	7397	9631	7397	8514	7397	9631	8514	96	31
Dimensions	Width	mm		2243										
	Height * mm			2358										
Operating wei	ght	kg	6597	6992	7387	7100	7949	7114	7509	7913	7904	7847	8703	8962
Refrigerant ch	arge	kg	90/90	97/97	103/103	102/84	115/97	96/96	102/102	103/103	109/109	109/109	115/115	124/109
YVAA-B			1076	1089	1134	1161	1174	1271	1381	1409	1549	1606	1649	1731
	Length	mm	10748	11865	9631	10748		11865		14105	11865	14105	15222	11865
Dimensions	Width	mm	2243											
	mm						23	58						
Operating wei	ght	kg	7957	8245	9122	8117	8405	9008	9160	9721	10919	11479	11769	10136
Refrigerant ch	arge	kg	131/115	131/128	118/118	124/124	131/131	166/109	160/118	173/131	147/147	160/160	166/166	147/147

^{*} The indicated height refers to the model with Standard fans.



^(*) New generation YVAA is a tailor and tune chiller. Its performance will be factory-adjusted to match the exact site requirements based on the specific project operating conditions. The table above shows only a representative sample of performance points based on generic project operating conditions working with R1234ze and R513A refrigerants, optimized compressor and high efficiency fans Variable Speed EC motor.

For tailored and tuned performance based on your specific project requirements, and for more information, please contact your Johnson Controls representative. Please refer to the latest version of the software for specific projects.

Proven Technology

Over decades of use, and more than 22,000 units installed globally, the YVAA chiller has excelled in a variety of applications while defining what's possible in air-cooled chiller technology and durability. Our highly optimized component choices make the new generation YVAA a more flexible, more reliable option for energy-efficient cooling and sustainability.





Microchannel condenser coil

low global warming potential of 7.

Carefully designed and tested for the unique conditions a building's HVAC system experiences, our next-generation microchannel heat exchangers use parallel flow aluminum alloy tubes that are easy to clean. Plus, our microchannel heat exchangers feature coating options that help increase reliability and durability in harsh environments.

Optimized compressors with patented, variable volume index (VI) technology

With decades of experience varying compressor speeds, the YVAA incorporates advanced, patented technology in a proven design. Our VI design optimizes the compression ratio of the compressor to match the conditions between the evaporator and condenser. This optimized compression ratio prevents overcompression to minimize energy consumption. Every compressor is run-tested at the end of the production line to ensure reliable operation.



flow evaporator

A patented, hybrid falling film shell and tube style of series flow evaporators provides a

higher energy efficiency, minimize refrigerant

charge up to 15% and offer a greater flexibility for performance optimization. Also it allows a wide operating range (-12°C to 21°C).



Ouick Start

The optional Quick Start feature enables an industryleading compressor restart of 34 seconds after power is restored. And because YVAA chillers contain a variable-speed drive, there is no inrush of current, so all compressors can be started together. This allows a faster ramp-up to full capacity than is possible with a typical chiller.



Smarter controls

Our built-in controls tolerate large variants in input power, shifts in liquid temperatures and changes in environmental conditions to maximize chiller uptime. And our controls integrate with industrystandard Building Automation Systems (BAS) and the worldclass Metasys controls system for greater building energy management efficiency. Optional Mobile Access Port (MAP) provides remote monitoring for predictive maintenance, resulting in dependable operation.



Variable-speed drive

Four decades ago, we introduced the first variablespeed drive (VSD) chiller. Our first VSD, air-cooled chiller came in 2004, and we've since installed more VSD chillers than all other manufacturers combined. VSDs help reduce energy consumption – particularly at off-design conditions - and can help lower annual energy costs as much as 50%. Our patented, liquidcooled VSDs also require less maintenance, with glycol replacement required only every five years. And the variable-speed design dramatically reduces sound levels at offdesign conditions - up to 16 dBA. Designed and manufactured by Johnson Controls, a 100% liquidcooled VSD is standard on the YVAA range.



Oil separator

The YVAA oil management system uses differential pressure to ensure proper oil flow and eliminate the need for mechanical oil pumps.

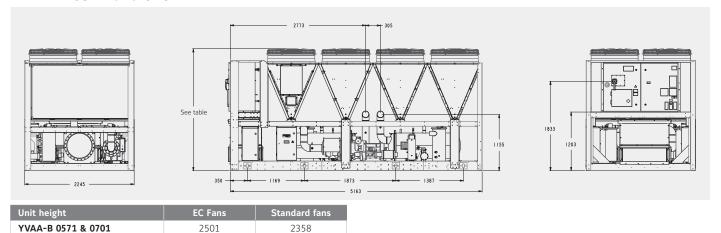


High-efficiency economizer

Our high-efficiency economizer boosts capacity, improves system efficiency and reduces operating costs.

All drawings are for two pass evaporator. For other configurations, please, contact JCI.

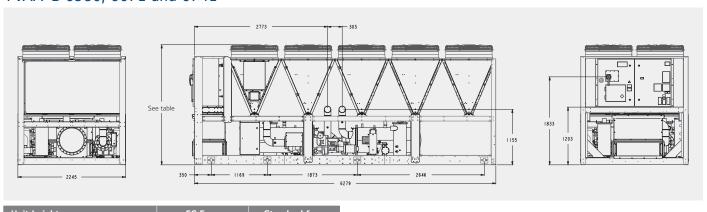
YVAA-B 0571 and 0701



All dimensions in mm. Drawings not in scale.

Dimensional drawings are for reference only. Actual dimensional drawings are specific to each unit selection. Please contact your JCI representative.

YVAA-B 0586, 0671 and 0741



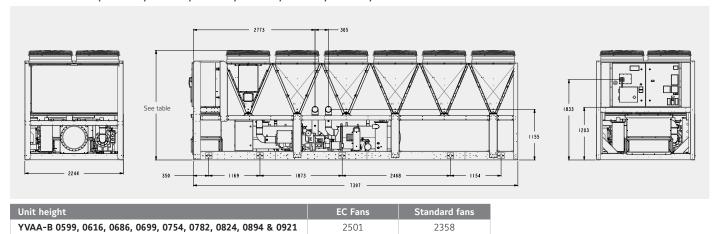
 Unit height
 EC Fans
 Standard fans

 YVAA-B 0586, 0671 & 0741
 2501
 2358

All dimensions in mm. Drawings not in scale.

All drawings are for two pass evaporator. For other configurations, please, contact JCI.

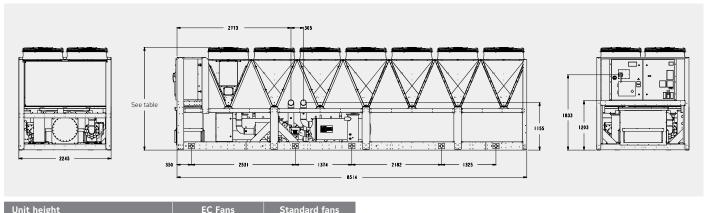
YVAA-B 599, 0616, 0686, 0699, 0754, 0782, 0824, 0894 and 0921



All dimensions in mm. Drawings not in scale.

Dimensional drawings are for reference only. Actual dimensional drawings are specific to each unit selection. Please contact your JCI representative.

YVAA-B 0756, 0796, 0919 and 0936

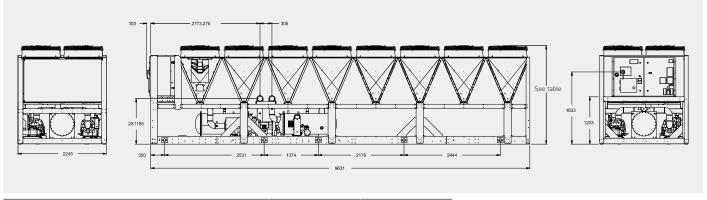


YVAA-B 0756, 0796, 0919 & 0936 2501

All dimensions in mm. Drawings not in scale.

All drawings are for two pass evaporator. For other configurations, please, contact JCI.

YVAA-B 0769, 0809, 0866, 0924, 0949, 1034 and 1134

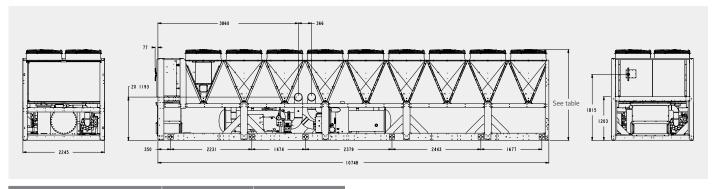


Unit height	EC Fans	Standard fans
YVAA-B 0769, 0809, 0866, 0924, 0949, 1034 & 1134	2501	2358

All dimensions in mm. Drawings not in scale.

Dimensional drawings are for reference only. Actual dimensional drawings are specific to each unit selection. Please contact your JCI representative.

YVAA-B 1076 and 1161

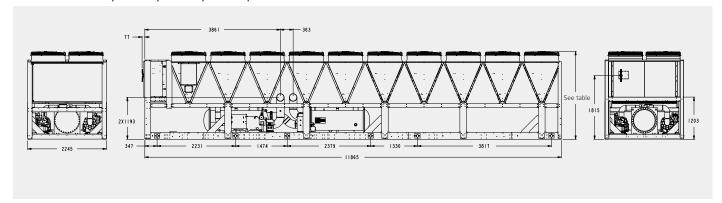


Unit height	EC Fans	Standard fans		
YVAA-B 1076 & 1161	2501	2358		

All dimensions in mm. Drawings not in scale.

All drawings are for two pass evaporator. For other configurations, please, contact JCI.

YVAA-B 1089, 1174, 1271, 1381, 1549 and 1731

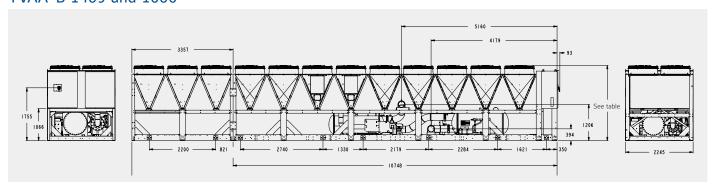


Unit height	EC Fans	Standard fans
YVAA-B 1089, 1174, 1271, 1381, 1549 & 1731	2501	2358

All dimensions in mm. Drawings not in scale.

Dimensional drawings are for reference only. Actual dimensional drawings are specific to each unit selection. Please contact your JCI representative.

YVAA-B 1409 and 1606

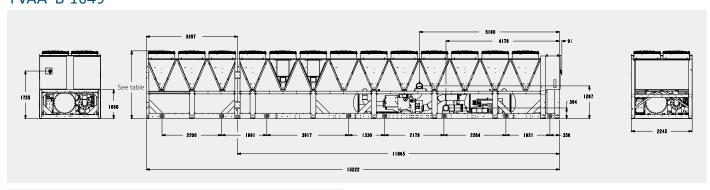


Unit height	EC Fans	Standard fans		
YVAA-B 1409 & 1606	2501	2358		

All dimensions in mm. Drawings not in scale.

Dimensional drawings are for reference only. Actual dimensional drawings are specific to each unit selection. Please contact your JCI representative.

YVAA-B 1649



Unit height	EC Fans	Standard fans		
YVAA-B 1649	2501	2358		

All dimensions in mm. Drawings not in scale.