EWAT-B-C

New Air Cooled Scroll Series

A new Air Cooled Chiller platform by Daikin

Why choose the new Air Cooled Scroll Series?

- Top class efficiency
- Advanced connectivity
- Low environmental impact
- Optimized system solutions
- Low running costs
- Infinite application possibilities
- Quiet sound operation
- Capacity range from 252 kW to 1,012 kW

One or two truly independent refrigerant circuits for outstanding reliability

New performance monitoring option

Two efficiency versions available,
combinable with standard or reduced noise configurations

EWAT-B-C

New Air Cooled Scroll Series

Suitable for data center, comfort and process applications

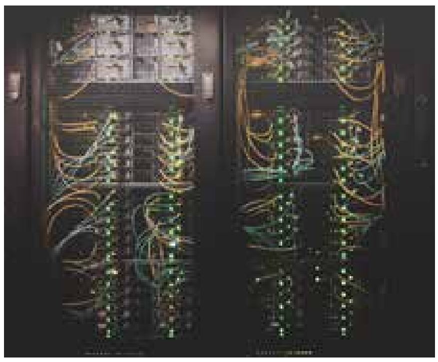
EWAT-B-C chillers are versatile and well-suited for various applications, thanks to their wide operating temperature range. They can effectively handle comfort, brine, and high-temperature process applications.

-13°C +30°C

Operating temperature range

Process cooling

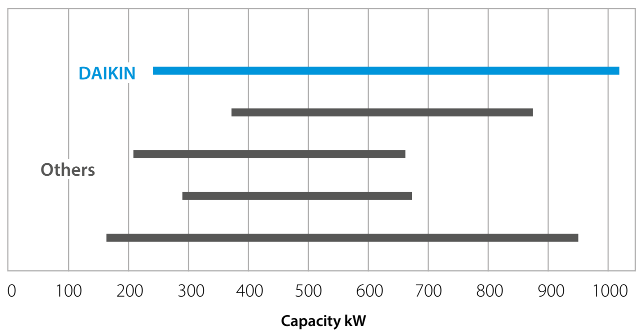
Comfort cooling



Datacenter cooling

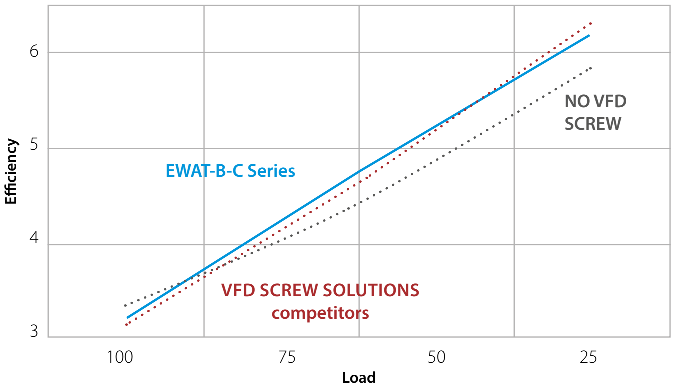
Large capacity

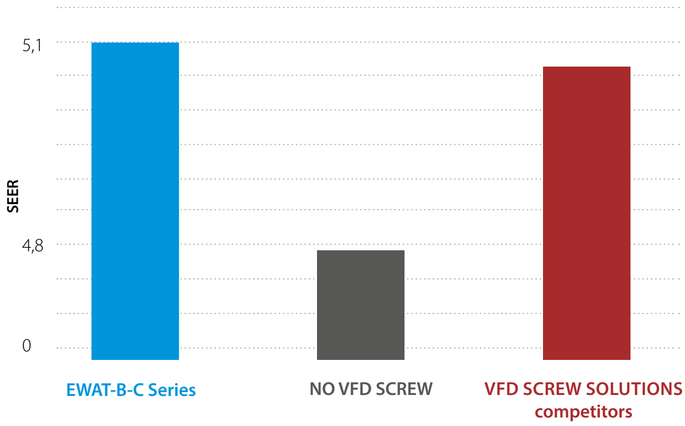
Daikin EWAT-B-C is available in large range of capacity, up to 1,012kW! (Referred to standard rating conditions).



Best efficiency

EWAT-B-C chillers efficiency levels are comparable with VFD SCREW from competition offering a competitive alternative without compromising system performance.





Large capacity, small footprint

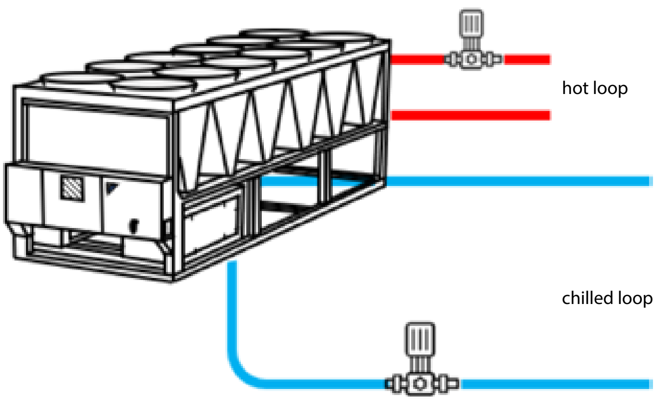
The EWAT-B-C chiller, thanks to the extended capacity, offers a wide range of solutions with opportunities to deal with a great variety of projects.

Suitable for mission critical applications (data centers)

Capacity can be fully restored within just 180 seconds after power is restored.

Heat recovery

Decarbonization process requires alternative and high efficiency heat sources.
The EWAT-B-C chiller can be equipped with heat recovery capability generating free heating while producing the required cooling energy.



Cooling Only				**EWAT**	**310B-SSC1**	**320B-SSC2**	**350B-SSC1**	**380B-SSC2**	**430B-SSC2**	**480B-SSC2**	**570B-SSC2**	**620B-SSC2**	**670B-SSC2**	**730B-SSC2**	**790B-SSC2**	**860B-SSC2**	**960B-SSC2**
Space cooling	A Condition 35°C	Pdc		kW	305.92	317.98	345.59	381.40	426.61	477.56	567.34	622.34	668.92	734.97	791.18	857.22	961.63
	ηs,c			%	184.6	177.7	181.2	183.0	184.9	183.0	190.4	188.9	188.1	190.4	190.8	192.6	189.0
SEER					4.689	4.517	4.604	4.649	4.698	4.649	4.834	4.797	4.778	4.834	4.844	4.889	4.801
Cooling capacity	Nom.			kW	305.92	317.98	345.59	381.40	426.61	477.56	567.34	622.34	668.92	734.97	791.18	857.22	961.63
Power input	Cooling	Nom.		kW	106.6	115.0	130.0	125.2	148.6	176.0	185.5	213.1	237.0	248.6	273.9	285.5	335.1
Capacity control	Method				Step												
	Minimum capacity			%	22	21	19	18	16	14	22	20	18	17	15	14	25
EER					2.869	2.764	2.658	3.046	2.871	2.714	3.058	2.921	2.823	2.957	2.889	3.002	2.870
IPLV					4.948	4.794	4.948	4.849	4.907	4.940	5.062	5.073	5.088	5.120	5.092	5.122	5.079
Dimensions	Unit	Height		mm	2,535												
		Width		mm	2,238												
		Depth		mm	2,510			3,590			4,670	4,670		5,750	5,850	6,930	
Weight	Unit			kg	2,080	2,120	2,200	2,620	2,800	2,920	3,500	3,670	3,780	4,310	4,670	5,120	5,310
	Operation weight			kg	2,099	2,146	2,228	2,646	2,837	2,960	3,555	3,747	3,856	4,385	4,743	5,196	5,412
Air heat exchanger	Type				Microchannel												
Compressor	Type				Scroll compressor												
	Quantity				3	4	3	4		5		6			7		8
Fan	Type				Direct propeller												
	Quantity				4			6			8			10		12	
	Air flow rate	Cooling	Nom.	l/s	25,490	25,500	25,490	38,240			50,980			63,730		76,480	
Sound power level	Cooling	Nom.		dBA	94.0	93.8	94.5	95.1	95.6	95.9	96.7	97.0	97.3	97.9	98.1	98.6	99.0
Sound pressure level	Cooling	Nom.		dBA	74.9	74.7	75.5	75.4	75.9	76.2	76.5	76.7	77.0	77.2	77.4	77.5	77.8
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52												
Refrigerant	Type/GWP				R-32/675												
	Charge			kg	22.0	25.0	30.0	31.0	35.0	39.0	45.0	50.0	53.0	59.0	63.0	68.0	77.0
	Circuits	Quantity			1	2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9						139.7						
Unit	Starting current	Max		A	693	697	735	750	792	838	891	936	979	1,032	1,079	1,132	1,220
	Running current	Cooling	Nom.	A	186	200	224	222	260	304	329	374	413	438	479	505	585
		Max		A	245	249	287	302	344	390	443	488	531	584	631	684	772
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Cooling Only				**EWAT**	**310B-SRC1**	**320B-SRC2**	**350B-SRC1**	**380B-SRC2**	**430B-SRC2**	**480B-SRC2**	**570B-SRC2**	**620B-SRC2**	**670B-SRC2**	**730B-SRC2**	**790B-SRC2**	**860B-SRC2**	**960B-SRC2**
Space cooling	A Condition 35°C	Pdc		kW	297.62	308.38	334.14	373.60	415.25	463.29	553.35	605.02	647.77	714.95	768.57	835.75	933.57
	ηs,c			%	197.5	185.0	189.2	192.8	193.5	193.1	202.0	200.3	197.9	205.2	206.3	208.4	201.8
SEER					5.013	4.700	4.806	4.895	4.913	4.902	5.124	5.083	5.022	5.206	5.232	5.284	5.121
Cooling capacity	Nom.			kW	297.62	308.38	334.14	373.60	415.25	463.29	553.35	605.02	647.77	714.95	768.57	835.75	933.57
Power input	Cooling	Nom.		kW	108.0	117.1	133.5	124.4	149.9	179.2	186.4	216.0	242.2	251.4	278.3	287.5	341.0
Capacity control	Method				Step												
	Minimum capacity			%	22	21	19	18	16	14	22	20	18	17	15	14	25
EER					2.757	2.634	2.502	3.003	2.771	2.586	2.969	2.801	2.674	2.844	2.762	2.907	2.738
IPLV					5.485	4.999	5.319	5.324	5.339	5.382	5.557		5.525	5.650	5.484	5.630	5.550
Dimensions	Unit	Height		mm	2,535												
		Width		mm	2,238												
		Depth		mm	2,514			3,594			4,674			5,754	5,848	6,928	
Weight	Unit			kg	2,164	2,206	2,288	2,705	2,920	3,063	3,634	3,828	3,937	4,467	4,845	5,298	5,512
	Operation weight			kg	2,187	2,234	2,316	2,733	2,959	3,099	3,694	3,905	4,014	4,544	4,922	5,375	5,611
Air heat exchanger	Type				Microchannel												
Compressor	Type				Scroll compressor												
	Quantity				3		4			5		6			7		8
Fan	Type				Direct propeller												
	Quantity				4			6			8			10		12	
	Air flow rate	Cooling	Nom.	l/s	21,470	21,460	21,470	32,200			42,940			53,670		64,400	
Sound power level	Cooling	Nom.		dBA	87.9	87.8	88.1	89.5	89.6	89.7	90.8	90.9	91.0	91.9		92.6	92.7
Sound pressure level	Cooling	Nom.		dBA	68.8		69.0	69.8	69.9	70.0	70.6	70.7	70.8	71.2		71.5	71.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52												
Refrigerant	Type/GWP				R-32/675												
	Charge			kg	22	25	30	31	35	39	45	50	53	59	63	68	77
	Circuits	Quantity			1	2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9						139.7						
Unit	Starting current	Max		A	693	697	735	750	792	838	891	936	979	1,032	1,078	1,131	1,219
	Running current	Cooling	Nom.	A	195	210	236	232	272	319	344	392	434	459	503	529	615
		Max		A	245	249	287	302	344	390	443	488	531	584	630	683	771
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400												

Cooling Only				EWAT	250B-XSC1	320B-XSC1	370B-XSC1	390B-XSC2	450B-XSC2	510B-XSC2	540B-XSC2	590B-XSC2	630B-XSC2	720B-XSC2	760B-XSC2	830B-XSC2	880B-XSC2	C10B-XSC2
Space cooling	A Condition 35°C	Pdc		kW	252.39	324.44	371.33	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39	1,009.36
	ηs,c			%	181.8	188.6	187.4	184.9	187.4	189.4	192.5	192.4	192.6	193.9	194.2	193.8	193.5	193.4
SEER					4.620	4.789	4.759	4.697	4.760	4.810	4.887	4.884	4.890	4.923	4.930	4.920	4.913	4.910
Cooling capacity	Nom.			kW	252.39	324.44	371.33	387.85	448.05	512.31	539.39	586.74	631.42	716.56	762.50	834.45	880.39	1,009.00
Power input	Cooling	Nom.		kW	79.1	100.0	118.8	125.6	140.5	158.0	160.2	178.6	197.1	218.1	236.9	257.3	276.1	315.7
Capacity control	Method				Step													
	Minimum capacity			%	50	22	19	18	16	25	14	22	20	18	17	15	14	25
EER					3.189	3.245	3.126	3.088	3.189	3.242	3.368	3.285	3.203	3.285	3.219	3.243	3.189	3.197
IPLV					4.907	5.002	5.051	4.895	4.977	5.068	5.091	5.117	5.109	5.141	5.165	5.130	5.146	5.126
Dimensions	Unit	Height		mm	2,535													
		Width		mm	2,238													
		Depth		mm	2,514	3,594			4,674		5,754			6,834		8,008		9,088
Weight	Unit			kg	1,963	2,466	2,585	2,657	3,169	3,359	3,804	3,916	4,024	4,565	4,673	5,442	5,551	6,251
	Operation weight			kg	1,986	2,489	2,610	2,693	3,205	3,419	3,864	3,979	4,084	4,642	4,750	5,519	5,628	6,350
Air heat exchanger	Type				Microchannel													
Compressor	Type				Scroll compressor													
	Quantity				2	3		4			5			6		7		8
Fan	Type				Direct propeller													
	Quantity				4	6			8		10			12		14		16
	Air flow rate	Cooling	Nom.	l/s	25,490	38,240			50,980		63,730			76,480		89,230		101,980
Sound power level	Cooling	Nom.		dBA	93.5	94.8	95.3	95.1	96.1	96.5	96.9	97.2	97.5	98.0	98.3	98.7	98.9	99.5
Sound pressure level	Cooling	Nom.		dBA	74.4	75.1	75.6	75.4	75.9	76.3	76.2	76.5	76.8	76.9	77.1	77.2	77.4	77.6
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52													
Refrigerant	Type/GWP				R-32/675													
	Charge			kg	44.0	50.0	55.0	30.5	35.0	39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0	75.0
	Circuits	Quantity			1			2										
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9					139.7								
Unit	Starting current	Max		A	647	703	746	750	803	845	858	901	944	999	1,042	1,142		1,240
	Running current	Cooling	Nom.	A	142	181	212	223	252	284	292	323	354	394	425	464	495	567
		Max		A	199	255	298	302	355	397	410	453	496	551	594	694		792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

Cooling Only				EWAT	250B-XRC1	320B-XRC1	370B-XRC1	390B-XRC2	450B-XRC2	510B-XRC2	540B-XRC2	590B-XRC2	630B-XRC2	720B-XRC2	760B-XRC2	830B-XRC2	880B-XRC2	C10B-XRC2
Space cooling	A Condition 35°C	Pdc		kW	241.40	313.20	355.68	370.32	431.43	489.48	520.68	563.54	603.94	687.57	728.98	800.94	842.34	965.50
	ηs,c			%	195.6	204.4	202.6	196.2	203.3	201.3	208.2	207.8	206.5	208.6	207.0	210.0	208.8	206.2
SEER					4.965	5.186	5.140	4.979	5.158	5.108	5.279	5.270	5.237	5.291	5.249	5.324	5.294	5.229
Cooling capacity	Nom.			kW	241.40	313.20	355.68	370.32	431.43	489.48	520.68	563.54	603.94	687.57	729.00	800.94	842.34	965.50
Power input	Cooling	Nom.		kW	81.1	99.9	121.4	129.1	141.4	162.1	159.6	180.7	202.0	221.3	242.8	261.1	282.2	323.5
Capacity control	Method				Step													
	Minimum capacity			%	50	22	19	18	16	25	14	22	20	18	17	15	14	25
EER					2.977	3.135	2.929	2.869	3.052	3.019	3.262	3.119	2.990	3.107	3.003	3.067	2.979	2.985
IPLV					5.340	5.525	5.487	5.317	5.446	5.528	5.630	5.620	5.601	5.649	5.605	5.613	5.605	5.576
Dimensions	Unit	Height		mm	2,535													
		Width		mm	2,238													
		Depth		mm	2,510	53,600	3,590		4,670		5,750			6,830		8,010		9,090
Weight	Unit			kg	2,020	2,550	2,670	2,740	3,290	3,480	3,940	4,060	4,160	4,720	4,830	5,620	5,730	6,450
	Operation weight			kg	2,045	2,577	2,698	2,780	3,324	3,538	4,003	4,115	4,223	4,801	4,909	5,697	5,806	6,549
Air heat exchanger	Type				Microchannel													
Compressor	Type				Scroll compressor													
	Quantity				2	3		4			5			6		7		8
Fan	Type				Direct propeller													
	Quantity				4	6			8		10			12		14		16
	Air flow rate	Cooling	Nom.	l/s	18,900	28,350		28,350	37,800		47,250			56,700		66,150		75,600
Sound power level	Cooling	Nom.		dBA	84.0	85.4	85.7	85.6	86.8	87.0	87.6	87.8	87.9	88.6	88.7	89.3	89.4	90.0
Sound pressure level	Cooling	Nom.		dBA	64.9	65.7	66.0	65.9	66.5	66.7	66.9	67.1	67.2	67.5	67.6	67.7	67.8	68.1
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20 ~52													
Refrigerant	Type/GWP				R-32/675													
	Charge			kg	44.0	50.0	55.0	30.5		39.5	42.0	45.0	49.0	55.0	57.5	62.5	67.0	75.0
	Circuits	Quantity			1			2										
Piping connections	Evaporator water inlet/outlet (OD)			mm	88.9					139.7								
Unit	Starting current	Max		A	647	703	746	750	803	845	858	901	944	999	1,042	1,142		1,240
	Running current	Cooling	Nom.	A	143	178	213	225	249	286	287	322	356	393	428	463	498	570
		Max		A	199	255	298	302	355	397	410	453	496	551	594	694		792
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50 /400													

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