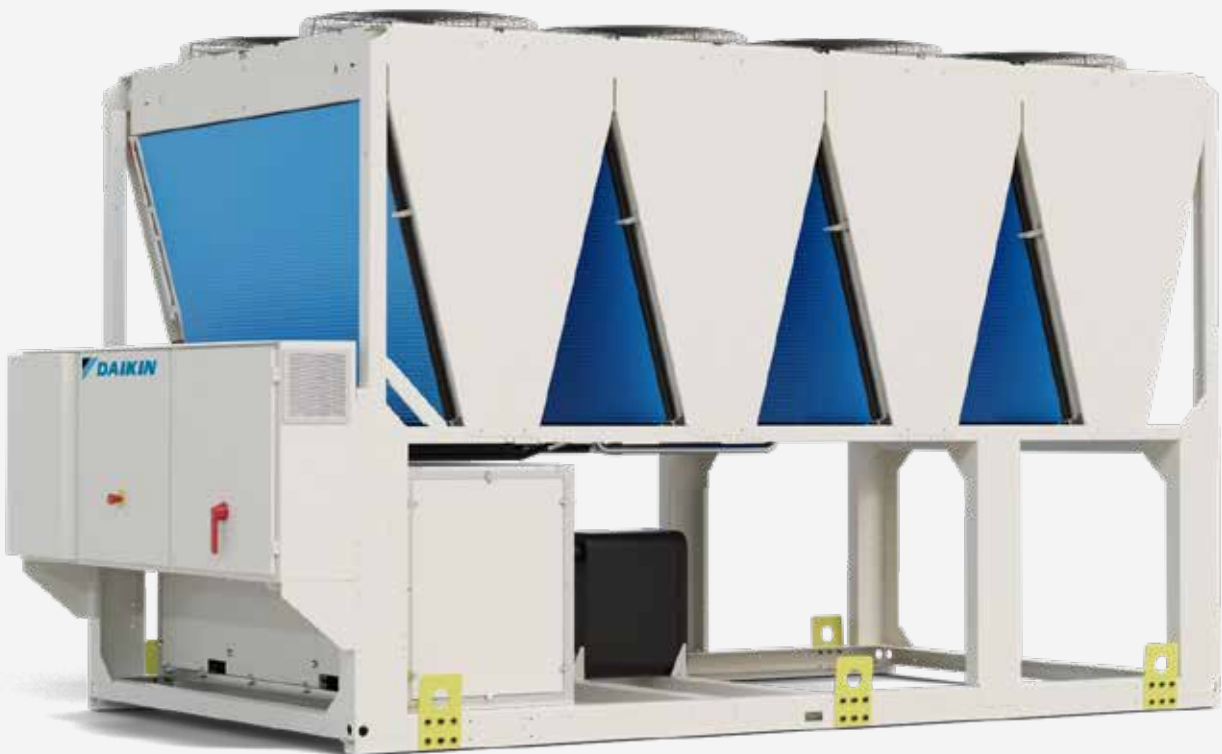


EWAT-B

Multi scroll chiller
with R-32 refrigerant



First air cooled chiller with environmental friendly R-32 refrigerant



Daikin, world's first company introducing a new generation of air cooled scroll chiller series with refrigerant R-32.

Why choose Daikin?

Daikin is continuously leading in chiller technology, striving again for innovation with the new generation of air cooled chillers with R-32 refrigerant, expanding its Bluevolution range to larger capacities.

With the highest efficiency at both partial and full load, installers and building owners can give end users better results all year round comfort – with lower noise levels and higher energy efficiency than ever before.

Thousands of sites around the world have relied on Daikin high efficiency products to reduce their running costs without compromising on climate comfort or performance.

With the new R-32 Scroll-chiller, Daikin has once again improved the chiller performances, increasing the Seasonal efficiency ratio (SEER) by 10% in comparison to the version with R-410A refrigerant.





Why has Daikin introduced R-32 models?

A core element of Daikin's corporate philosophy is that the company strives to be a leader in applying environmentally friendly practices, with energy efficiency and refrigerant choice as key factors.

Daikin, involved in both HVAC and refrigerant business, was the world first company to introduce R-32 in split air conditioners in 2012, and has expanded the range in the past years including commercial air conditioners and heat pumps. As of December 2017, Daikin sold approximately 12 million R-32 units in more than 50 Countries.

The global warming potential of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410.

Thanks to the lower flammability classification (R-32 refrigerant falls into category class A2L in ISO817), it can be safely used in many applications including chilled water systems. As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favour.

What is GWP?

Global Warming Potential (GWP) is a number which expresses the potential impact that a particular refrigerant would have on global warming if it were released into the atmosphere. It is a relative value which compares the impact of 1kg of refrigerant to 1kg of CO₂ over a period of 100 years.

Although this impact can be avoided by preventing leaks and ensuring proper end of life recovery, choosing a refrigerant with a lower GWP and minimizing the volume of refrigerant will reduce the risk to the environment if a leak were to occur accidentally.

Why choose

EWAT-B- chiller series?



R-32

- ✓ Top class efficiency, SEER up to 4,7.
Overcoming 2021 Eco-design requirements!
- ✓ Environmental friendly refrigerant
→ First in the market
- ✓ New R-32 optimized scroll compressors and heat exchangers
- ✓ The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- ✓ The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- ✓ As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favour
- ✓ Wide capacity range: 80 – 700 kW
- ✓ Microchannel condensing coil, for reduced refrigerant charge
- ✓ Silver and Gold efficiency versions
- ✓ 3 sound configurations
- ✓ Full compatibility with Daikin on Site
- ✓ New Hydronic Kit configurations (single and twin pump, inertial tank, VFD)
- ✓ Single and dual circuit version overlapping between 150 kW and 350 kW
 - › Single circuit units fits 2 or 3 compressors
 - › Dual circuit units fits 4 or 5 or 6 compressors
- ✓ Extensive option lists
- ✓ Fan speed modulation option (VFD)

Two different layouts



Single-V Layout

- > Slim layout
- > Higher flexibility: new intermediate sound configuration for both Silver and Gold versions



Modular-V Layout:

- > Brand new layout
- > Better part load efficiency (SEER) vs previous generation:
 - > +4% with standard arrangement
 - > +7% with VFD fan option

Extensive option lists

Including new options:

NEW Partial heat recovery

Introduction of condensation control allowing to maintain heat recovery capacity at lower ambient temperatures with unit operating at full capacity

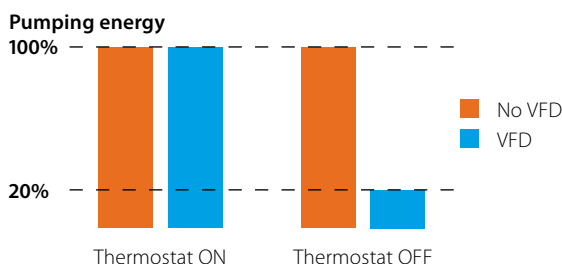
	HR @ 35°C ambient	HR @ 20°C ambient
Current	~ 15%	~ 3%
New	~ 15%	~ 15%

NEW Buffer tank

Unit mounted buffer tank available all across the range for plug and play solution.

NEW VFD pumps and variable flow control

- › Variable pump speed control via external 0-10 volt signal
- › “Thermostat on” and “thermostat off” pump speed management
- › Variable primary flow control



Master/Slave supplied as standard

Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.

Connection to Intelligent Chiller Manager

In case of more complex installations Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customization of the control solutions to the specific installation's needs

- › High number of units
- › Peripheral controls



Fan Silent Mode

The single V units and units with VFD option are standardly equipped with Fan Silent Mode, which reduces fan velocity and therefore unit sound emission on scheduled time bands, enhancing comfort during night operation

Connectivity

mAP

- › Android app
- › Replicate the controller of the unit
- › Operate on the unit by remote smart device (tablet, smartphone, PC)
- › Soon available on PlayStore



Portable touch screen option

- › Display 10"
- › Touch screen
- › Network: Wireless, Bluetooth, GPS, GSM, ecc...
- › Interface: SIM card, RJ45, RS232, USB, HDMI, audio



Daikin on Site

Fully compatible with Daikin on Site cloud based platform that allows a number of advanced functionalities including:

- › Remote monitoring,
- › System optimization
- › Preventive maintenance

Remote access with one click via LAN or GSM modem



Technical details

Extensive list of options and accessories can be provided on request, such as fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

EWAT-B-SS/SL				085	115	135	155	175	195	205	215	240	
Space cooling	A	Pdc	kW	80.92	108.73	131.2	157.55	174.49	190.91	209.86	216.55	240.44	
	Condition 35°C												
	η _{s,c}		%	149	161.8	149	149	163	157.8	159.8	151	165.4	
	η _{s,c} + VFDFAN		%									169	
SEER				3.8	4.12	3.8	3.8	4.15	4.02	4.07	3.85	4.21	
SEER + VFDFAN												4.3	
Cooling capacity	Nom.		kW	80.92	108.73	131.2	157.55	174.49	190.91	209.86	216.55	240.44	
Power input	Cooling	Nom.	kW	31.8	38.5	49.8	61.8	67.7	69.4	79.8	85.6	85.3	
Capacity control	Method			Staged			Variable	Staged		Variable		Staged	
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	
EER				2.55	2.82	2.64	2.55	2.58	2.75	2.63	2.53	2.82	
ESEER				3.96	4.03	3.86	3.83	4.09	4	3.94	3.85	3.94	
IPLV				4.65	4.92	4.46	4.68	4.78	4.8	4.87	4.49	4.66	
EER + VFDFAN												2.81	
ESER + VFDFAN												4	
IPLV + VFDFAN												4.77	
Dimensions	Unit	Height	mm	1801	1801	1801	1822	1801	1822	1822	1822	2540	
	Unit	Width	mm	1204	1204	1204	1204	1204	1204	1204	1204	2236	
	Unit	Depth	mm	2120	2660	2660	3570	3180	4170	4170	3780	2326	
Weight (SS)	Unit		kg	679	763	810	1005	983	1164	1156	1191	1660	
	Operation weight		kg	686	773	820	1014	996	1177	1169	1210	1668	
Water heat exchanger	Type												
	Water volume		l	5	6	9	7	12	11		16		
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.3	7.6	8.4	9.1	10.1	10.4	11.5
	Water pressure drop	Cooling	Nom.	kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4	69.7
Air heat exchanger	Type												
Compressor	Type												
	Quantity			2			4	2	4		2		
Fan	Type												
	Quantity			4	6		8		10				
	Air flow rate	Nom.	l/s	6022	9036		13354	12023	16710		15057		
	Speed		rpm	1.360									
Sound power level (SS)	Cooling	Nom.	dB(A)	84.8	88.2	89.7	87.8	91.8	89.9	90.9	93.2	93.3	
Sound power level (SL)	Cooling	Nom.	dB(A)	83.7	86.2	87.0	86.7	88.8	88.1	88.7	90.0	90.8	
Sound pressure level (SS)	Cooling	Nom.	dB(A)	67.4	70.5	72.0	69.5	73.8	71.3	72.3	74.8	74.3	
Sound pressure level (SL)	Cooling	Nom.	dB(A)	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6	71.8	
Operation range	Air side	Cooling	Min. ~Max.	°CDB -10~43									
	Water side	Cooling	Min. ~Max.	°CDB									
Refrigerant	Type/GWP												
	Charge		kg	10	11	12.5	15	14	18	18	17	36	
	Circuits	Quantity		1			2	1	2		1		
Piping connections	Evaporator water inlet/outlet (OD)			76,1			88,9	76,1	88,9		76,1		
Unit	Starting current	Max	A	213	313	324	284	462	384	395	498	411	
	Running current	Cooling	Nom.	A	59	69	83	112	113	122	136	147	
	Running current	Max	A	73	86	96	143	132	156	167	168	183	
Power supply	Phase/Frequency/Voltage		Hz/V										

260	290	310	330	340	350	420	460	510	570	610	670
259.39	281.85	305.6	328.59	342	348.88	414.98	465.75	511.1	564.43	609.05	664.62
155.4	168.2	166.2	167.4	169.8	161.4	174.6	171	172.2	169.8	171.4	171.4
158.6	172.6	170.2	171	177	163.8	177.4	175.4	176.6	173.4	173.8	177.4
3.96	4.28	4.23	4.26	4.32	4.11	4.44	4.35	4.38	4.32	4.36	4.36
4.04	4.39	4.33	4.35	4.5	4.17	4.51	4.46	4.49	4.41	4.42	4.51
259.39	281.85	305.6	328.59	342	348.88	414.98	465.75	511.1	564.43	609.05	664.62
95.7	108	112	121	117	132	146	171	186	216	230	239
Variable											
25	24	14	13	33	19	17	15	14	12	11	17
2.71	2.61	2.71	2.7	2.92	2.64	2.83	2.72	2.74	2.61	2.64	2.78
3.76	3.99	4.02	3.97	4.06	3.91	4.09	4	3.97	4.03	4.01	3.98
4.46	4.76	4.67	4.65	4.77	4.58	4.77	4.75	4.7	4.74	4.71	4.73
2.71	2.61	2.71	2.69	2.91	2.64	2.82	2.71	2.74	2.61	2.64	2.77
3.86	4.09	4.09	4.01	4.21	3.98	4.14	4.13	4.06	4.03	4.08	4.11
4.59	4.88	4.85	4.73	4.84	4.71	4.89	4.92	4.81	4.82	4.78	4.96
2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540
2236	2236	2236	2236	2236	2236	2236	2236	2236	2236	2236	2236
2326	2326	3226	3226	3226	3226	4126	4126	4126	4126	5025	5874
1688	1853	2096	2123	2247	2304	2600	2921	2913	3148	3554	3888
1694	1869	2114	2141	2268	2324	2630	2954	2946	3195	3597	3924
Braze plate											
11	16	19	20	19	28	42					
12.4	13.5	14.6	15.7	16.4	16.7	19.9	22.3	24.5	27	29.2	31.9
80	66.7	46.4	52.9	77.2	59	54.5	67.2	79.6	65.4	75.1	88
Microchannel											
Driven vapour compression											
4	3	4	3	4	5	6					
Direct propeller											
4	5	6	5	7	8	9	11				
20306	25382	30459	25382	35535	40612	45688	55841				
900											
93.8	94.8	94.9	95.3	96.1	95.6	96.7	97.0	97.6	97.8	98.3	99.0
90.8	91.0	91.8	91.9	92.7	91.9	93.3	93.4	93.9	94.0	94.5	95.3
74.8	75.8	75.4	75.8	76.6	76.1	76.7	77.0	77.6	77.9	77.9	78.2
71.8	72.0	72.3	72.4	73.2	72.4	73.3	73.4	74.0	74.0	74.1	74.6
-18~43											
-13~20											
R-32/675											
38	36	42	43	50	44	57	58	60	62	80	90
2	1	2	1	2							
88,9	76,1	88,9	76,1	88,9	114,3						
422	546	572	583	587	595	635	680	717	761	798	839
160	179	194	207	197	220	238	285	310	358	382	399
195	215	241	253	256	264	305	349	386	431	467	508
3~/50/400											

Technical details

Extensive list of options and accessories can be provided on request, such as fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

EWAT-B-SR				085	115	135	155	175	195	205	215	240
Space cooling	A	Pdc	kW	76.32	104.78	123.67	149.61	164.58	180.89	199.92	203.05	230.33
	Condition 35°C			149	161.4	149	149	163.8	153	153.8	149.8	168.6
	η _{s,c}		%	3.8	4.11	3.8	3.8	4.17	3.9	3.92	3.82	4.29
SEER				76.32	104.78	123.67	149.61	164.58	180.89	199.92	203.05	230.33
Cooling capacity	Nom.		kW	33.8	40.3	53.1	65.9	72.8	73.2	84.7	91.9	89.1
Power input	Cooling	Nom.	kW	Staged								
Capacity control	Method			50	38	50	25	38	21	19	50	17
	Minimum capacity		%	2.26	2.6	2.33	2.27	2.26	2.47	2.36	2.21	2.59
EER				3.95	4.07	3.9	3.81	4.1	3.88	3.97	3.73	4.09
ESEER				4.67	4.97	4.5	4.63	4.74	4.62	4.72	4.36	4.88
IPLV				1801				1822	1801	1822		
Dimensions	Unit	Height	mm	1801				1822	1801	1822		
	Unit	Width	mm	1204						1204		
Weight	Unit	Depth	mm	2120	2660		3570	3180	4170		3780	
	Unit		kg	689	773	820	1026	993	1185	1177	1191	1815
Water heat exchanger	Operation weight		kg	696	783	830	1035	1.006	1198	1190	1210	1822
	Type											
Air heat exchanger	Water volume		l	5	6	9	7	12	11	11	16	11
	Water flow rate	Cooling	Nom.	l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7
	Water pressure drop	Cooling	Nom.	kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8
Compressor	Type											
Fan	Quantity			2			4	2	4		2	
	Type											
Sound power level	Quantity			4	6		8		10			
	Air flow rate	Nom.	l/s	4929	7396	7396	11352	9838	14202	14202	12325	17064
	Speed		rpm	1200								
Sound pressure level	Cooling	Nom.	dB(A)	78.6	82.5	84.1	81.6	86.3	83.9	85.2	87.8	87.0
Operation range	Cooling	Nom.	dB(A)	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4	68.1
Refrigerant	Air side	Cooling	Min. ~Max. °CDB	-10~43								
	Water side	Cooling	Min. ~Max. °CDB									
Piping connections	Type/GWP											
	Charge		kg	10	11	12.5	15	14	18	18	17	36
Unit	Circuits	Quantity		1			2	1	2		1	
	Evaporator water inlet/outlet (OD)			76.1				88.9	76.1	88.9		76.1
Power supply	Starting current	Max	A	213	313	324	284	462	384	395	498	411
	Running current	Cooling	Nom.	A	62	71	87	119	119	128	151	151
	Running current	Max	A	73	86	96	143	132	156	167	168	183
	Phase/Frequency/Voltage		Hz/V									

260	290	310	330	340	350	420	460	510	570	610	670
247.63	265.52	289.52	310.75	328.17	329.79	397.33	441.96	486.05	532.44	576.51	634.99
157.4	167.4	165	167.4	173	158.6	173.8	171	173.4	169	171.8	173.4
4.01	4.26	4.2	4.26	4.4	4.04	4.42	4.35	4.41	4.3	4.37	4.41
247.63	265.52	289.52	310.75	328.17	329.79	397.33	441.96	486.05	532.44	576.51	634.99
100	115	118	129	122	140	147	181	197	230	244	251
Variable											
25	24	14	13	33	19	17	15	14	12	11	17
2.48	2.3	2.44	2.41	2.69	2.35	2.7	2.43	2.46	2.31	2.35	2.53
3.89	4.12	4.05	3.96	4.2	3.97	4.09	4.13	4.02	4.13	4.01	4.1
4.63	4.84	4.83	4.72	5.01	4.7	4.81	4.86	4.75	4.84	4.84	4.89
2540											
2236											
2326		3226				4126				5025	5874
1843	1935	2251	2277	2330	2304	2754	2921	3078	3312	3718	4053
1849	1951	2268	2296	2350	2324	2784	2954	3111	3360	3762	4089
Braze plate											
11	16	19	19	20	19	28	28	28	42	42	42
11.9	12.7	13.9	14.9	15.7	15.8	19	21.2	23.3	25.5	27.6	30.4
73.5	59.9	42.1	47.8	71.7	53.2	50.4	61.1	72.7	58.9	68	81
Microchannel											
Driven vapour compression											
4	3	4	3	4	5	6					
Direct propeller											
4	5	6	5	7	8	9	11				
17064	17064	21330	21330	25596	21330	29862	29862	34128	34128	38394	46926
780											
87.2	87.5	88.2	88.3	89.1	88.4	89.8	89.8	90.4	90.5	91.0	91.8
68.2	68.5	68.7	68.8	69.6	68.9	69.8	69.9	70.5	70.5	70.6	71.1
-18~43											
-13~20											
R-32/675											
38	36	42	43	50	44	57	58	60	62	80	90
2	1	2	1	2							
88.9	76.1	88.9	76.1	88.9	114.3						
422	546	572	583	587	595	635	680	717	761	798	839
165	189	203	216	202	231	245	298	324	378	402	414
195	215	241	253	256	264	305	349	386	431	467	508
3~/50/400											

Technical details

Extensive list of options and accessories can be provided on request, such as fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

EWAT-B-XS/XL				085	115	145	180	185	200	220	230	250	
Space cooling	A	Pdc	kW	87.7	113.64	143.23	178.64	182.18	200.33	225.65	238.26	254.08	
	Condition 35°C												
	η _{s,c}			%	155.4	171.8	165.4	161.4	169.4	164.2	167	165.4	167.8
	η _{s,c} + VFDFAN			-			168.6	-	171	173	170.2	174.6	
SEER				3.96	4.37	4.21	4.11	4.31	4.18	4.25	4.21	4.27	
SEER + VFDFAN					-		4.29	-	4.35	4.4	4.33	4.44	
Cooling capacity	Nom.		kW	87.7	113.64	143.23	178.64	182.18	200.33	225.65	238.26	254.08	
Power input	Cooling	Nom.	kW	28.9	36.5	44.5	57.2	63.8	65.7	74.9	74.8	81.8	
Capacity control	Method			Staged			Variable	Staged	Variable		Staged		
	Minimum capacity		%	50	38	50	25	38	21	19	50	17	
EER				3.04	3.11	3.22	3.12	2.86	3.05	3.01	3.19	3.11	
ESEER				4.07	4.23	4.19	4.02	4.05	4.01	4.06	4.1	4.03	
IPLV				4.83	5	4.82	4.65	4.88	4.67	4.72	4.71	4.69	
EER + VFDFAN					-		3.11	-	3.04	3.01	3.18	3.1	
ESER + VFDFAN					-		4.3	-	4.13	4.19	4.23	4.21	
IPLV + VFDFAN					-		5.11	-	5.05	5.01	4.92	4.97	
Dimensions	Unit	Height	mm	1801		1822	2540	1822					
	Unit	Width	mm	1204			2236	1204					
	Unit	Depth	mm	2660	3180	3780	2326	3780	2326				
Weight (XS)	Unit		kg	733	826	951	1577	1062	1609	1636	1915	1899	
	Operation weight		kg	742	836	958	1588	1078	1618	1646	1935	1912	
Water heat exchanger	Type												
	Water volume		l	5	6	9	11	12	11		16	14	
	Water flow rate	Cooling	Nom.	l/s	4.2	5.4	6.9	8.6	8.7	9.6	10.8	11.4	12.2
	Water pressure drop	Cooling	Nom.	kPa	31.6	37.3	31	40.7	45.1	50.1	43.7	49.2	54.2
Air heat exchanger	Type												
Compressor	Type												
	Quantity			2			4	2	4		2		
Fan	Type												
	Quantity			6	8	10	4	10	4		5		
	Air flow rate	Nom.	l/s	9036	12023	15057	20306	15057	20306		25382		
	Speed		rpm	1360			900	1360					
Sound power level (XS)	Cooling	Nom.	dBA	86.0	88.8	90.5	91.2	92.1	92.0	92.7	94.8	93.8	
Sound power level (XL)	Cooling	Nom.	dBA	85.2	87.1	88.5	90.6	89.3	90.6	90.7	91.8	91.7	
Sound pressure level (XS)	Cooling	Nom.	dBA	68.3	70.8	72.2	72.3	73.7	73.1	73.7	75.3	74.3	
Sound Pressure (XL)	Cooling	Nom.	dBA	67.5	69.1	70.1	71.6	70.9	71.7	71.7	72.3	72.2	
Operation range	Air side	Cooling	Min. ~Max. °CDB	-10~46			-18~46	-10~46					
	Water side	Cooling	Min. ~Max. °CDB										
Refrigerant	Type/GWP												
	Charge		kg	10.5	12.5	15	30	16	36	37	30	42	
	Circuits	Quantity		1			2	1	2		1		
Piping connections	Evaporator water inlet/ outlet (OD)			76.1			88.9	76.1	88.9		76.1		
	Unit	Starting current	Max	A	215	315	328	290	464	388	399	505	415
	Running current	Cooling	Nom.	A	56	67	78	110	108	122	135	128	145
	Running current	Max	A	75	87	100	149	134	160	172	175	187	
Power supply	Phase/ Frequency/ Voltage		Hz/V										

280	300	310	320	360	370	430	470	540	600	660	700		
280.99	303.6	304.42	325.3	350.13	370.33	423.61	470.48	536.64	606.55	659.77	701.27		
173	170.6	173.8	171.4	171.8	171	175.8	171.4	173.8	173.8	175.8	175.4		
180.2	184.2	179.4	173.8	181	175	180.2	175	183.8	184.2	185.8	186.6		
4.4	4.34	4.42	4.36	4.37	4.35	4.47	4.36	4.42	4.42	4.47	4.46		
4.58	4.68	4.56	4.42	4.6	4.45	4.58	4.45	4.67	4.68	4.72	4.74		
280.99	303.6	304.42	325.3	350.13	370.33	423.61	470.48	536.64	606.55	659.77	701.27		
88.2	97.7	97.7	106	113	121	136	152	175	195	211	227		
Variable													
16	24	14	22	33	19	17	25	14	12	11	17		
3.19	3.11	3.12	3.05	3.1	3.05	3.11	3.08	3.06	3.1	3.12	3.08		
4.15	4.14	4.13	4.12	4.08	4.03	4.12	4.09	4.06	4.08	4.12	4.05		
4.78	4.8	4.77	4.68	4.8	4.7	4.78	4.77	4.76	4.78	4.82	4.75		
3.17	3.1	3.12	3.04	3.1	3.04	3.1	3.07	3.05	3.1	3.11	3.07		
4.23	4.32	4.18	4.22	4.25	4.15	4.17	4.2	4.3	4.25	4.33	4.27		
5.12	5.09	4.92	4.86	4.94	4.96	4.94	4.99	5.01	4.99	5.12	5.08		
2540													
2236													
3226				4126				5025				6774	
2037	2130	2065	2093	2508	2472	2656	3072	3293	3708	4083	4231		
2055	2152	2087	2123	2532	2501	2693	3103	3332	3751	4125	4267		
Brazed plate													
19	20	19	20	28	42	50							
13.4	14.5	14.6	15.6	16.8	17.7	20.3	22.5	25.7	29.1	31.6	33.6		
39.8	62.2	46.1	51.9	80.6	65.7	56.6	68.5	59.7	74.6	70.2	78.5		
Microchannel													
Driven vapour compression													
4	3	4	3	4	5	6							
Direct propeller													
6				7				8				9	
30459				35535				40612				45688	
50765				60918				65994				71071	
900													
94.6	95.6	95.0	95.4	96.4	96.2	96.9	97.6	98.0	98.6	99.0	99.4		
92.5	92.6	92.5	92.6	93.3	93.2	93.8	94.4	94.8	95.6	95.9	96.3		
75.1	76.1	75.5	75.9	76.4	76.3	77.0	77.2	77.6	77.8	77.9	78.3		
73.0	73.1	73.0	73.1	73.3	73.3	73.9	74.0	74.4	74.8	74.8	75.2		
-18~46													
-13~20													
R-32/675													
48	36	50	52	50	58	62	70	78	80	92	100		
2	1	2	1	2	2								
88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1		
543	554	555	566	591	603	639	676	725	777	814	851		
158	168	171	184	193	209	235	260	299	335	361	388		
212	223	224	235	260	272	309	345	394	447	483	520		
3~/50/400													

Technical details

Extensive list of options and accessories can be provided on request, such as fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

EWAT-B-XR				085	115	145	180	185	200	220	230	250			
Space cooling	A	Pdc	kW	81.68	108.36	135.38	167.75	165.77	187.07	207.97	223.94	238.24			
	Condition 35°C			ηs,c	%	213.28	166.6	160.2	163.8	160.2	166.6	166.6	165	171.4	
SEER				3.84	4.24	4.08	4.17	4.08	4.24	4.24	4.2	4.36			
Cooling capacity	Nom.		kW	81.68	108.36	135.38	167.75	165.77	187.07	207.97	223.94	238.24			
Power input	Cooling	Nom.	kW	30.9	39	47	59.1	70.5	69.8	80.7	79.2	86.4			
Capacity control	Method			Staged			Variable	Staged	Variable		Staged				
	Minimum capacity		%	50	38	50	25	38	21	19	50	17			
EER				2.64	2.78	2.88	2.84	2.35	2.68	2.58	2.83	2.76			
ESEER				4.02	4.18	4.08	4.24	4.04	4.21	4.17	4.16	4.15			
IPLV				4.74	5.1	4.76	5	4.78	5	5.05	4.82	4.93			
Dimensions	Unit	Height	mm	1801		1822	2540	1822							
	Unit	Width	mm	1204			2236	1204							
	Unit	Depth	mm	2660	3180	3780	2326	3780	2326						
Weight	Unit		kg	744	837	961	1732	1072	1763	1790	1977	2054			
	Operation weight		kg	752	846	968	1743	1088	1773	1801	1997	2066			
Water heat exchanger	Type														
	Water volume		l	5	6	9	11	12	11		16	14			
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.5	8	7.9	9	10	10.7	11.4		
	Water pressure drop	Cooling	Nom.	kPa	27.8	34.2	28	36.3	38	44.2	37.7	44	48.2		
Air heat exchanger	Type														
Compressor	Type														
	Quantity	2			4		2		4		2				
Fan	Type														
	Quantity	6		8		10		4		10		4		5	
	Air flow rate	Nom.	l/s	6673	8896	11122	15054	11122	15054	15054	18819	18818			
Sound power level	Speed		rpm	1108	1108	1108	700	1108	700	700	700	700			
	Cooling	Nom.	dB(A)	77.9	81.9	84.0	84.2	86.0	84.5	84.8	86.2	85.8			
Sound pressure level	Cooling	Nom.	dB(A)	60.2	63.9	65.6	65.3	67.7	65.5	65.8	66.7	66.3			
Operation range	Air side	Cooling	Min. ~Max.	-10~46			-18~46		-10~46						
	Water side	Cooling	Min. ~Max.	°CDB											
Refrigerant	Type/GWP														
	Charge		kg	10.5	12.5	15	30	16	36	37	30	42			
	Circuits	Quantity		1			2		1		2		1		
Piping connections	Evaporator water inlet/ outlet (OD)	76.1			88.9		76.1		88.9		76.1				
Unit	Starting current	Max	A	215	315	328	290	464	388	399	505	415			
	Running current	Cooling	Nom.	A	60	71	83	113	118	128	143	151			
		Max	A	75	87	100	149	134	160	172	175	187			
Power supply	Phase/ Frequency/ Voltage		Hz/V												

280	300	310	320	360	370	430	470	540	600	660	700		
264.17	284.03	283.97	301.05	327.53	345.32	393.29	437.99	500	569.48	618.9	656.69		
176.6	180.6	174.6	166.6	175	169.8	175.8	167.4	178.6	181.4	181	180.2		
4.49	4.59	4.44	4.24	4.45	4.32	4.47	4.26	4.54	4.61	4.6	4.58		
264.17	284.03	283.97	301.05	327.53	345.32	393.29	437.99	500	569.48	618.9	656.69		
92.2	104	103	114	121	130	146	163	188	207	224	242		
Variable													
16	24	14	22	33	19	17	25	14	12	11	17		
2.87	2.71	2.76	2.63	2.7	2.66	2.68	2.68	2.66	2.74	2.76	2.71		
4.34	4.31	4.12	4.04	4.24	4.15	4.15	4.12	4.2	4.21	4.25	4.23		
5.09	5.15	5.02	4.72	5.05	4.9	4.86	4.82	4.91	5.07	4.99	4.99		
2540													
2236													
3226				4126				5025		5874	6774		
2192	2212	2220	2247	2590	2627	2811	3237	3458	3873	4248	4396		
2209	2234	2241	2277	2614	2655	2848	3268	3497	3916	4290	4432		
Braze plate													
19	20	19	20	28	42	50							
12.6	13.6	13.6	14.4	15.7	16.5	18.8	21	23.9	27.3	29.6	31.5		
35.6	55.1	40.6	45.1	71.4	57.9	49.5	60.2	52.5	66.5	62.6	69.7		
Microchannel													
Driven vapour compression													
4	3	4	3	4	5	6							
Direct propeller													
6				7				8	9	10	12	13	14
22582	22582	22582	22582	26346	26346	30110	33874	37637	45164	48928	52692		
700	700	700	700	700	700	700	700	700	700	700	700		
86.6	87.0	86.7	86.9	87.7	87.6	88.3	88.9	89.3	90.0	90.4	90.7		
67.1	67.5	67.2	67.4	67.8	67.7	68.3	68.5	68.9	69.2	69.3	69.6		
-18~46													
-13~20													
R-32/675													
48	36	50	52	50	58	62	70	78	80	92	100		
2	1	2	1	2	2	2	2	2	2	2	2		
88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1		
543	554	555	566	591	603	639	676	725	777	814	851		
164	177	179	194	204	221	250	276	319	352	381	410		
212	223	224	235	260	272	309	345	394	447	483	520		
3~/50/400													

Future-proof choice in chillers



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