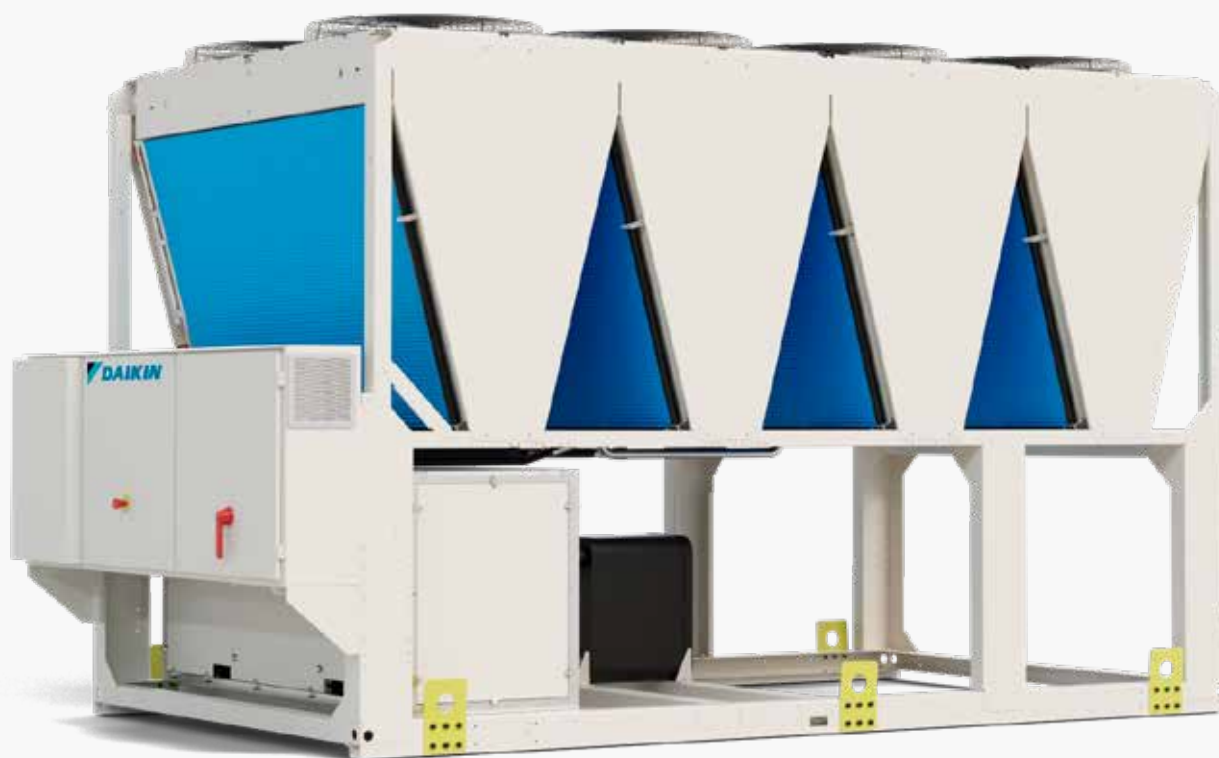
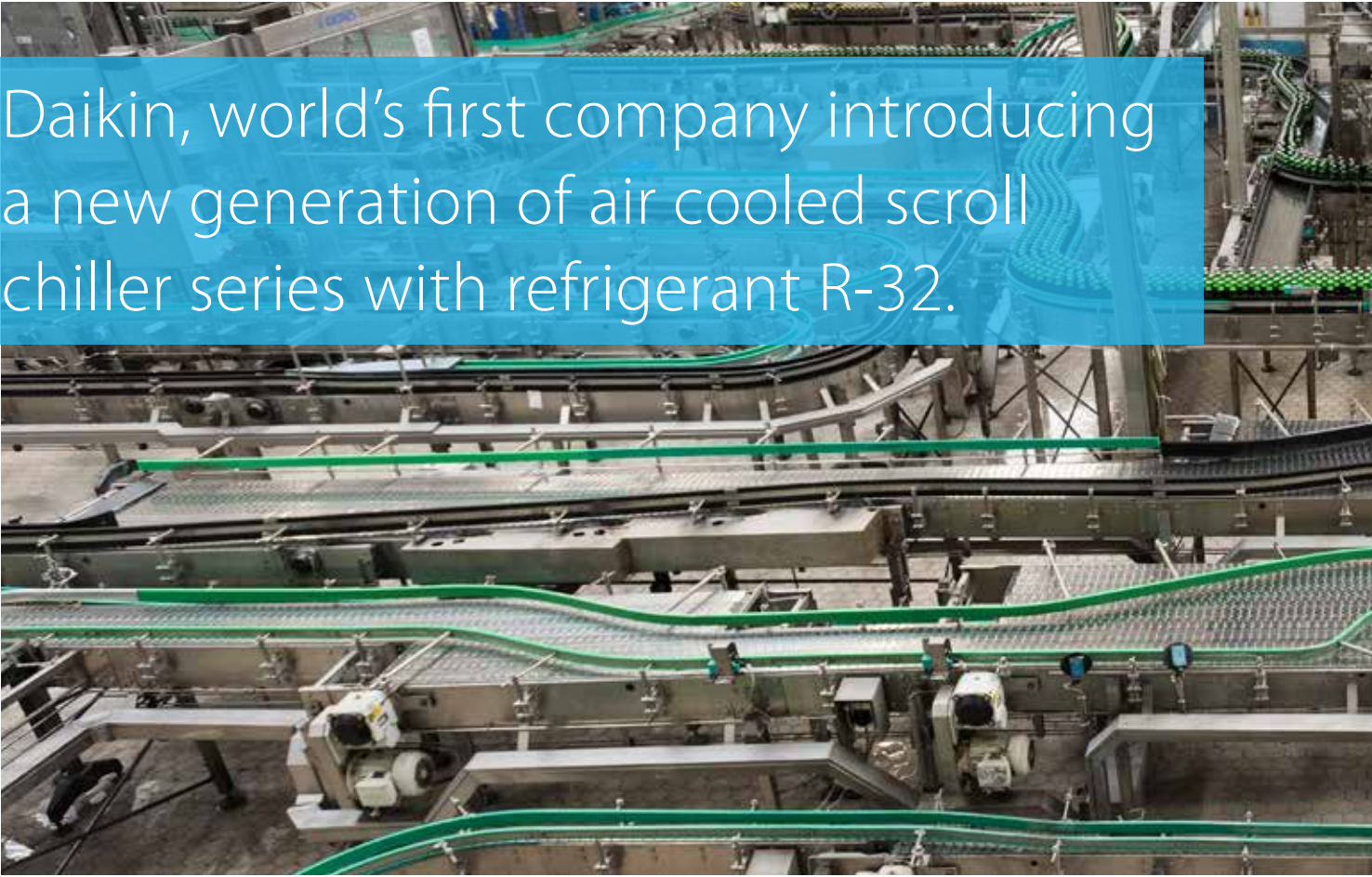


EWAT-B

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 it's 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 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. 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.

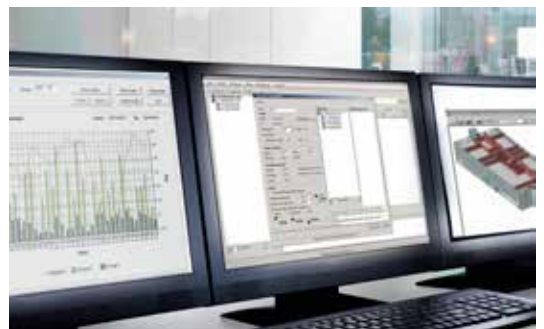
Although this impact can be avoided by preventing leaks and ensuring proper end of life recovery, choosing a refrigerant with a lower GWP and minimizing the volume of refrigerant will reduce the risk to the environment if a leak were to occur accidentally.



Why choose EWAT-B chiller series?

R-32

- ✓ Top class efficiency, SEER up to 4,84.
Overcoming 2021 Eco-design requirements!
- ✓ Environmental friendly refrigerant
→ First in the market
- ✓ 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
- ✓ 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: three intermediate sound configuration for both Silver and Gold versions



Modular-V Layout:

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



Extensive option lists

Including options:

Partial heat recovery

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

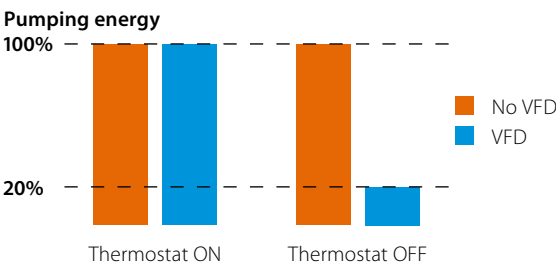
	HR @ 35°C ambient	HR @ 20°C ambient
Current	~ 15%	~ 3%
New	~ 15%	~ 15%

Buffer tank

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

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.

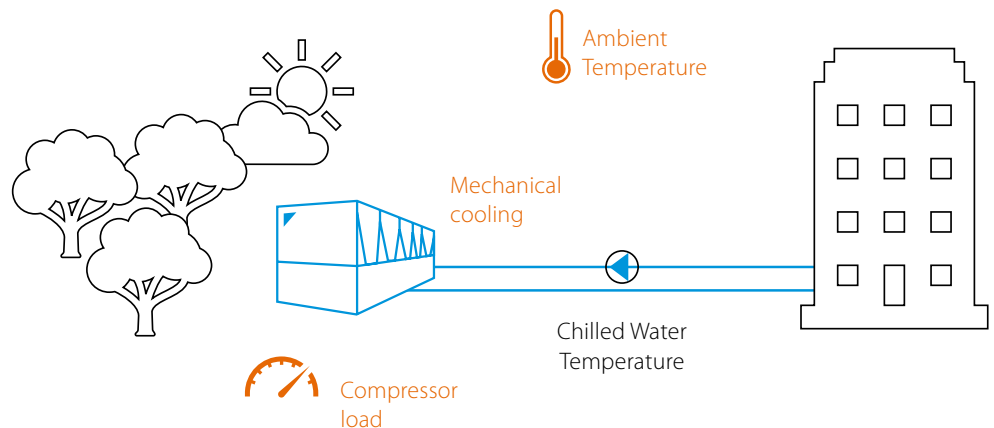
Fan Silent Mode

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.

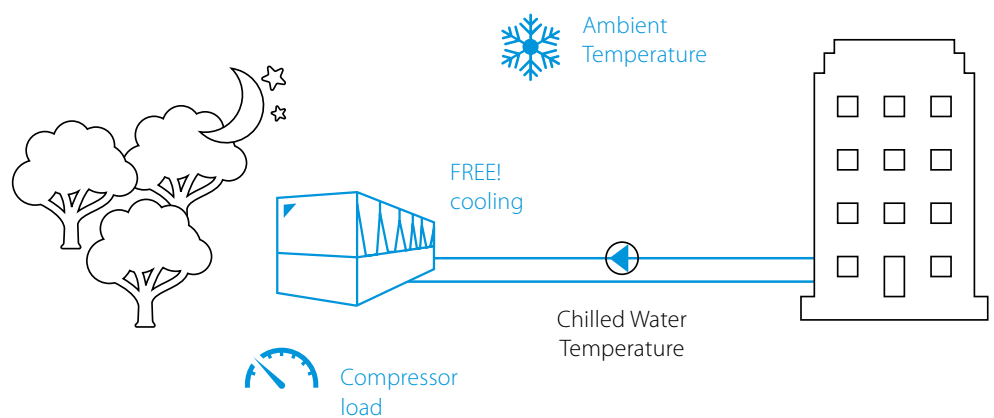
Free-cooling options

What is free cooling?

It's the capability of a system/equipment to cool air or water by taking advantage of the **favorable outdoor conditions** when ambient temperature is reducing, for example during winter or intermediate season or even during night time operation.



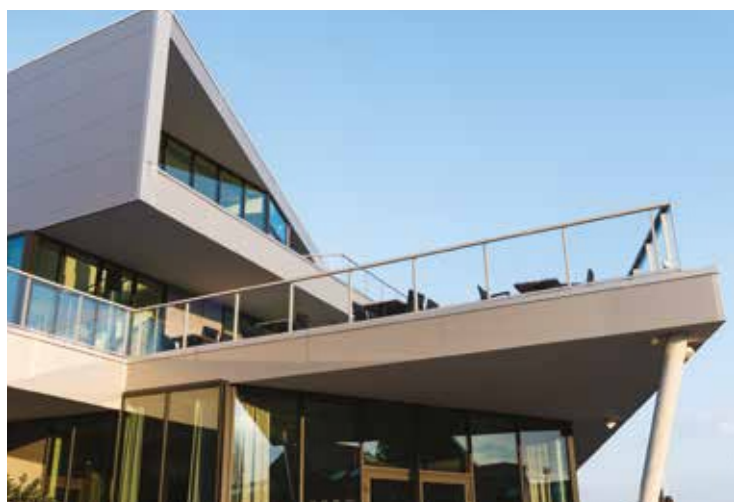
Free cooling operation allows to **reduce the power consumption** generated by traditional mechanical cooling (e.g. Compressors).



Why free-cooling?

The use of the outdoor ambient as a source for cooling is the perfect way to answer to the **"EPBD Directive"** (Energy Performance of Buildings Directive):

All new buildings in the European Union shall be nZEB (**nearly Zero Energy Buildings**) from 31/12/2020 and public buildings shall lead the way and be nZEB compliant **from 31/12/2018**. From **2021** this will apply also to private buildings.



BLUEvolution +

FREE
cooling

The Daikin R-32 chiller series can be offered with innovative free-cooling options to further improve energy efficiency and reduce running costs

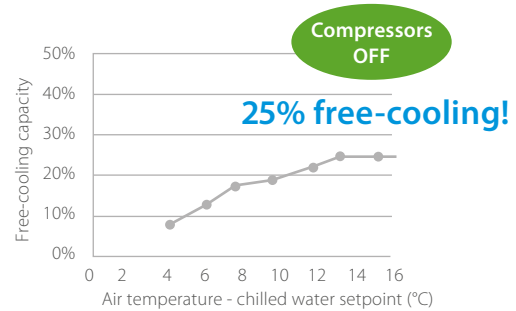


Free-cooling - Light

Refrigerant migration system allowing to recover up to 25% of normal unit capacity

Benefits

- › Glycol free solution
- › No refrigerant pump required
- › No extra footprint vs standard unit
- › No extra pressure drops on water side



Free-cooling - Full

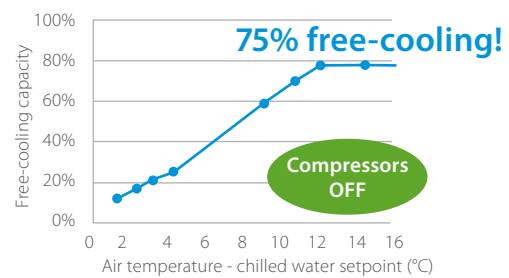
Refrigerant migration system allowing to recover up to 75% of normal unit capacity

PATENTED

Benefits

- › 75% free-cooling due to additional "Shell & Tube" refrigerant to water exchanger (compared to Light version)
- › Glycol free solution
- › No refrigerant pump required
- › No extra footprint vs standard unit*
- › No extra pressure drops on water side

(*) except 4 fans model



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



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



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



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.

R-32

Cooling Only				EWAT-B-SSB/SLB				085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670
Space cooling	A Condition 35°C	Pdc		kW	80.92	108.97	131.42	158.15	174.93	191.39	210.53	217.08	241.41	260.58	282.93	306.42	329.59	343.51	350.1	416.28	467.54	513.41	566.53	611.64	667.91			
	ηs,c			%	161	173	161		176.2	170.6	173	161																
	ηs,c + VFDFAN			%				-						175.4	165.4	177.8	182.6	173.4	183.4	169.4	179.8	182.2	181.8	179.4	180.2	183.8		
SEER					4.1	4.4	4.1		4.48	4.34	4.4	4.1	4.37	4.14	4.42	4.52	4.33	4.44	4.24		4.56						4.55	
SEER + VFDFAN								-						4.46	4.21	4.52	4.64	4.41	4.66	4.31	4.57	4.63	4.62	4.56	4.58	4.67		
Cooling capacity	Nom.			kW	81	109	131	158	175	191	211	217	241	261	283	306	330	344	350	416	468	513	567	612	668			
Power input	Cooling	Nom.		kW	31.8	38.5	49.8	61.9	67.8	69.5	80	85.8	85.2	95.6	108	113	122	117	132	147	171	186	216	230	238			
Capacity control	Method															Step												
	Minimum capacity			%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17			
EER					2.55	2.83	2.64	2.55	2.58	2.75	2.63	2.53	2.83	2.73	2.62	2.72	2.71	2.94	2.65	2.84	2.73	2.76	2.63	2.66	2.8			
IPLV					4.65	4.92	4.46	4.68	4.78	4.84	4.86	4.7	4.67	4.44	4.74	4.86	4.63	4.8	4.56	4.87	4.84	4.81	4.89	4.9	4.86			
EER + VFDFAN								-					2.83	2.73	2.62	2.72	2.7	2.93	2.65	2.83	2.73	2.76	2.62	2.66	2.8			
IPLV + VFDFAN								-					4.81	4.27	4.55	5.02	4.75	5	4.7	4.91	4.89	4.9	4.93	4.89	5			
Dimensions	Unit	Height		mm	1,801				1,822	1,801	1,822				2,540													
		Width		mm					1,204					2,236														
		Depth		mm	2,120	2,660	3,570	3,180	4,170				3,780	2,326				3,226				4,126				5,025	5,874	
Weight (SSB)	Unit		kg	681	767	811	1,007	984	1,166	1,158	1,184	1,712	1,739	1,912	2,186	2,214	2,343	2,242	2,721	2,881	3,037	3,278	3,712	4,073				
	Operation weight		kg	686	773	820	1,014	996	1,177	1,169	1,200	1,723	1,750	1,928	2,205	2,233	2,363	2,261	2,749	2,909	3,065	3,320	3,754	4,115				
Weight (SLB)	Unit		kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279				
	Operation weight		kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321				
Water heat exchanger	Type				Braze plate																							
	Water volume			l	5	6	9	7	12	11				16	11				16	19	20	19	28				42	
	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	12.4	13.5	14.6	15.7	16.4	16.7	19.9	22.3	24.5	27	29.2	31.9			
Air heat exchanger	Water pressure drop	Cooling	Nom.	kPa	27.3	34.4	26.5	64.2	41.7	45.9	54.4	41.4	69.7	80	66.7	46.4	52.9	77.2	59	54.5	67.2	79.6	65.4	75.1	88			
	Type				Microchannel																							
	Compressor	Type			Scroll compressor																							
Fan	Quantity				2				4	2	4				2	4	3	4	3	4	3	4	5	6				
	Type				Direct propeller																							
	Quantity				4	6	8				10				4	5	6	5	7	8	9	11						
Sound power level (SSB)	Air flow rate Nom.			l/s	6,022	9,036	13,354	12,023	16,710				15,057	20,306				25,382	30,459	25,382	35,535	40,612				45,688	55,841	
	Speed			rpm	1,360										900													
	Cooling	Nom.		dBA	84.8	88.2	89.7	87.8	91.8	89.9	90.9	93.2	93.3	93.8	94.8	94.9	95.3	96.1	95.6	96.7	97	97.6	97.8	98.3	99			
Sound power level (SLB)	Cooling	Nom.		dBA	83.7	86.2	87	86.7	88.8	88.1	88.7	90	90.8	91	91.8	91.9	92.7	91.9	93.3	93.4	93.9	94	94.5	95.3				
Sound pressure level (SSB)	Cooling	Nom.		dBA	67.4	70.5	72	69.5	73.8	71.3	72.3	74.8	74.3	74.8	75.8	75.4	75.8	76.6	76.1	76.7	77	77.6	77.9	78.2				
Sound pressure level (SLB)	Cooling	Nom.		dBA	66.3	68.5	69.3	68.4	70.7	69.5	70.1	71.6	71.8	72	72.3	72.4	73.2	72.4	73.2	72.4	73.3	73.4	74	74.1	74.6			
Refrigerant	Type/GWP				R-32/675																							
	Charge			kg	7.5	8.5	13	11	14.5	13	19				25.5	25	26	24	34.5	36	41	42	46.5	52.5				
	Circuits	Quantity			1				2	1	2	1	2	1	2	1	2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)				76.1				88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9				114.3					
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843			
	Running current	Cooling	Nom.	A	59	69	83	108	113	117	131	142	147	160	179	194	206	196	219	238	285	310	358	381	398			
	Running current	Max		A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513			
Power supply	Phase/Frequency			Hz	3~/50																							

R-32

Cooling Only				EWAT-B-SRB	085	115	135	155	175	195	205	215	240	260	290	310	330	340	350	420	460	510	570	610	670								
Space cooling	A Condition 35°C	Pdc		kW	76.49	105	123.88	150.13	164.87	181.31	200.51	203.5	231.19	248.68	266.45	290.26	311.62	329.53	330.8	398.49	443.51	488.06	534.23	578.74	637.95								
	ηs,c			%	161	173	161	166.2	162.2	167.8	161	179.8	164.2	174.2	172.2	173.8	179	165	179	179.8	179.4		179										
SEER					4.1	4.4	4.1	4.23	4.13	4.27	4.1	4.57	4.18	4.43	4.38	4.42	4.55	4.2	4.55	5.57	4.56		4.55										
Cooling capacity	Nom.			kW	76	105	124	150	165	181	201	204	231	249	266	290	312	330	331	398	444	488	534	579	638								
Power input	Cooling	Nom.		kW	33.7	40.3	53	65.9	73	73.2	84.6	91.9	89	99.9	115	119	129	122	140	147	181	197	230	244	251								
Capacity control	Method				Step																												
	Minimum capacity			%	50	38	50	25	38	21	19	50	17	25	24	14	13	33	19	17	15	14	12	11	17								
EER					2.27	2.61	2.34	2.28	2.26	2.48	2.37	2.21	2.6	2.49	2.31	2.44	2.41	2.7	2.35	2.71	2.45	2.48	2.32	2.37	2.55								
IPLV					4.67	4.97	4.5	4.63	4.74	4.64	4.91	4.66	4.93	4.27	4.51	4.82	4.7	5	4.72	4.81	4.92	4.93	5.04	5.03	5.01								
Dimensions	Unit	Height		mm	1,801		1,822		1,801		1,822		2,540																				
		Width		mm	1,204								2,236																				
		Depth		mm	2,120	2,660	3,570	3,180	4,170	3,780	2,326				3,226				4,126						5,025	5,874							
Weight	Unit			kg	691	777	821	1,028	994	1,187	1,179	1,194	1,815	1,842	2,004	2,289	2,317	2,434	2,345	2,824	3,066	3,223	3,484	3,918	4,279								
	Operation weight			kg	696	783	830	1,035	1,006	1,198	1,190	1,210	1,826	1,853	2,020	2,308	2,336	2,454	2,364	2,852	3,094	3,251	3,526	3,960	4,321								
Water heat exchanger	Type				Braze plate																												
	Water volume			l	5	6	9	7	12	11		16	11		16	19		20	19	28		42											
	Water flow rate	Cooling	Nom.	l/s	3.7	5	5.9	7.2	7.9	8.7	9.6	9.7	11	11.9	12.7	13.9	14.9	15.7	15.8	19	21.2	23.3	25.5	27.6	30.4								
	Water pressure drop	Cooling	Nom.	kPa	24.6	32.2	23.8	58.5	37.5	41.6	49.9	36.8	64.5	73.5	59.9	42.1	47.8	71.7	53.2	50.4	61.1	72.7	58.9	68	81								
Air heat exchanger	Type				Microchannel																												
Compressor	Type				Scroll compressor																												
	Quantity				2		4		2		4		2		4		3		4		3		4		5		6						
Fan	Type				Direct propeller																												
	Quantity				4		6		8		10		4				5		6	5	7		8		9	11							
	Air flow rate Nom.			l/s	4,929	7,396		11,352		9,838		14,202		12,325		17,064				21,330		25,596		21,330		29,862		34,128		38,394		46,926	
	Speed			rpm	1,200																												
Sound power level	Cooling	Nom.		dBA	78.6	82.5	84.1	81.6	86.3	83.9	85.2	87.8	87	87.2	87.5	88.2	88.3	89.1	88.4	89.8		90.4	90.5	91	91.8								
Sound pressure level	Cooling	Nom.		dBA	61.2	64.7	66.4	63.3	68.3	65.3	66.6	69.4	68.1	68.2	68.5	68.7	68.8	69.6	68.9	69.8	69.9	70.5		70.6	71.1								
Refrigerant	Type/GWP				R-32/675																												
	Charge			kg	7.5	8.5		13	11	14.5		13	19		25.5		25	26	24	34.5	36	41	42	46.5	52.5								
	Circuits	Quantity			1		2		1	2		1	2		1	2		1	2														
Piping connections	Evaporator water inlet/outlet (OD)				76.1		88.9		76.1	88.9		76.1	88.9		76.1	88.9		76.1	88.9				114.3										
Unit	Starting current	Max		A	213	313	324	284	462	384	395	498	410	420	546	573	583	588	594	636	681	719	763	801	843								
	Running current	Cooling	Nom.	A	62	71	87	115	119	123	139	151		165	189	202	216	202	231	245	298	324	378	402	414								
	Running current	Max		A	73	86	96	143	132	156	167	168	182	193	216	243	254	258	265	307	351	389	433	471	513								
Power supply	Phase/Frequency			Hz	3~/50																												

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.

R-32

Cooling Only			EWAT-B-XSB/XLB		085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc	kW		87.9	113.89	143.48	179.01	182.67	200.92	226.26	238.95	254.88	281.64	304.64	305.17	326.28	351.74	371.72	424.99	472.32	538.3	609.11	662.39	704.37
	ηs,c		%		167	183	175	-	175.8																
	ηs,c + VFDFAN		%		-			181.8	-	176.2	184.2	174.6	184.2	188.6	190.2	184.6	178.2	181	179.8	182.6	179.8	187		190.6	
SEER					4.25	4.65	4.45	4.38	4.47	4.4	4.5	4.31	4.47	4.59		4.6	4.5	4.34	4.48	4.56	4.55	4.56	4.61	4.64	4.58
SEER + VFDFAN					-			4.62	-	4.48	4.68	4.44	4.68	4.79	4.83	4.69	4.53	4.6	4.57	6.64	4.57	4.75		4.84	
Cooling capacity	Nom.		kW		88	114	143	179	183	201	226	239	255	282		305	326	352	372	425	472	538	609	662	704
Power input	Cooling	Nom.	kW		28.8	36.6	44.4	57	63.6	65.7	74.7	74.6	81.7	87.9	97.3	97.4	106.8	113	121	137	153	175	195	211	227
Capacity control	Method				Step																				
	Minimum capacity		%		50	38	50	25	38	21	19	19	17	16	24	14	22	33	19	17	25	14	12	11	17
EER					3.05	3.12	3.23	3.14	2.87	3.06	3.03	3.21	3.12	3.2	3.13	3.313	3.06	3.11	3.06	3.11	3.09	3.07	3.12	3.14	3.1
IPLV					4.83	5	4.82	4.65	4.74	4.67	4.72	4.6	4.69	4.78	4.86	4.77	4.79	4.38	4.7	4.8	4.9	4.8	4.79	4.82	4.77
EER + VFDFAN					-			3.13	-	3.05	3.02	3.19	3.11	3.19		3.12	3.05	3.11	3.05	3.1	3.08	3.07	3.11	3.13	3.09
IPLV + VFDFAN					-			5.11	-	4.87	4.97	5	5.02	5.14	4.95	4.93	4.97	4.96	4.95	4.92	4.71	5.05	5.08	5.12	5.1
Dimensions	Unit	Height	mm		1,801	1,822	2,540	1,822									2,540								
		Width	mm		1,204		2,236	1,204									2,236								
		Depth	mm		2,660	3,180	3,780	2,326	3,780	2,326				3,226				4,126			5,025	5,874	6,774		
Weight (XSB)	Unit		kg		737	830	949	1,633	1,066	1,663	1,699	2,082	1,987	2,128	2,226	2,159	2,196	2,639	2,698	2,785	3,228	3,448	3,900	4,294	4,436
	Operation weight		kg		742	836	958	1,644	1,078	1,674	1,710	2,098	2,001	2,147	2,246	2,178	2,215	2,659	2,718	2,813	3,256	3,490	3,942	4,344	4,486
Weight (XLB)	Unit		kg		747	840	959	1,736	1,076	1,766	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393	4,106	4,500	4,642	
	Operation weight		kg		752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	2,338	2,281	2,318	2,751	2,821	2,916	3,421	4,148	4,550	4,692	
Water heat exchanger	Type				Brazed plate																				
	Water volume		l		5	6	9	11	12	11	16	14	19	20	19		20		28		42		50		
	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	13.4	14.5	14.6	15.6	16.8	17.7	20.3	22.5	25.7	29.1	31.6	33.6
	Water pressure drop	Cooling	Nom.	kPa	31.6	37.3	31	40.7	45.1	50.1	43.7	49.2	54.2	39.8	62.2	46.1	51.9	80.6	65.7	56.6	68.5	59.7	74.6	70.2	78.5
Air heat exchanger	Type				Microchannel																				
Compressor	Type				Scroll compressor																				
	Quantity				2		4	2		4	2		4	3		4	3		4		5		6		
Fan	Type				Direct propeller																				
	Quantity				6	8	10	4	10	4		5		6			7	8	9	10	12	13	14		
	Air flow rate	Nom.	l/s		9,036	12,023	15,057	20,306	15,057	20,306		25,382		30,459			35,535	40,612	45,688	50,765	60,918	65,994	71,071		
	Speed		rpm		1,360		900	1,360									900								
Sound power level (XSB)	Cooling	Nom.	dBA		86	88.8	90.5	91.2	92.1	92	92.7	94.8	93.8	94.6	95.6	95	95.4	96.4	96.2	96.9	97.6	98	98.6	99	99.4
Sound power level (XLB)	Cooling	Nom.	dBA		85.2	87.1	88.5	90.6	89.3	90.6	90.7	91.8	91.7	92.5	92.6	92.5	92.6	93.3	93.2	93.8	94.4		95.6	95.9	96.3
Sound pressure level (XSB)	Cooling	Nom.	dBA		68.3	70.8	72.2	72.3	73.7	73.1	73.7	75.3	74.3	75.1	76.1	75.5	75.9	76.4	76.3	77	77.2	77.6	77.8	77.9	78.3
Sound pressure level (XLB)	Cooling	Nom.	dBA		67.5	69.1	70.1	71.6	70.9	71.7	72.3	72.2	73	73.1	73	73.1	73.3	73.9	74			74.8		75.2	
Refrigerant	Type/GWP				R-32/-																				
	Charge		kg		9	10	11	20	12	20	23.5	24	27.5		28	27.5	32	31	36	43.5	49	55	60	66	
	Circuits	Quantity			1		2	1	2	1	2		2		1	2	1				2				
Piping connections	Evaporator water inlet/outlet (OD)				76.1		88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1	88.9	76.1		88.9					114.3		
Unit	Starting current	Max	A		215	315	328	290	464	388	399	506	414	543		554	564	592	602	640	678	727	779	817	855
	Running current	Cooling	Nom.	A	56	67	78	110	108	122	135	128	145	158	168	170	183	192	208	234	259	298	334	360	387
	Running current	Max	A		75	87	100	149	134	160	171	176	186	213		224	235	262	273	311	348	397	449	487	525
Power supply	Phase/Frequency		Hz		3~/50																				

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Cooling Only				EWAT-B-XRB				085	115	145	180	185	200	220	230	250	280	300	310	320	360	370	430	470	540	600	660	700
Space cooling	A Condition 35°C	Pdc		kW	81.86	108.59	135.62	168.03	166.16	187.56	208.44	224.52	238.22	264.73	284.94	284.65	301.84	328.88	346.48	394.41	439.5	501.51	571.63	621.1	659.28			
	ηs,c			%	213.28	179.4	166.6	177	164.6	186.6	179	169	177	186.6	185.8	183	173.8	180.6	176.2	181.8	179	183		187.4	185.4			
SEER					4.13	4.56	4.24	4.5	4.19	4.74	4.55	4.3	4.5	4.74	4.72	4.65	4.42	4.59	4.48	4.62	4.55	4.65	4.76	4.71				
Cooling capacity	Nom.			kW	82	109	136	168	166	188	208	225	238	265		285		302	329	346	394	440	502	572	621	659		
Power input	Cooling	Nom.		kW	30.8	38.9	46.9	59.1	70.5	69.8	80.7	79.2	87.3	92.2	105	103	115	121	130	147	163	190	207	224	242			
Capacity control	Method				Step																							
	Minimum capacity			%	50	38	50	25	38		21	19	50	17	16		24	14	22	33	19	17	25	14	12	11	17	
EER					2.66	2.79	2.89	2.84	2.36	2.69	2.58	2.84	2.73	2.87	2.72	2.76	2.63	2.71	2.67		2.69	2.64	2.76	2.77	2.72			
IPLV					4.74	5.1	4.76	5.04	4.72	5.05	4.97	4.86	4.91	5.08	4.78	4.94	4.62	5.04	4.95	4.88	4.72	4.96	5.04	5.07	5.08			
Dimensions	Unit	Height		mm	1,801		1,822	2,540	1,822									2,540										
		Width		mm		1,204		2,236	1,204									2,236										
		Depth		mm	2,660	3,180	3,780	2,326	3,780		2,326			3,226					4,126			5,025	5,874		6,774			
Weight	Unit			kg	747	840	959	1,736	1,076	1,766	1,802	2,082	2,090	2,231	2,318	2,262	2,299	2,731	2,801	2,888	3,393	3,633	4,106	4,500	4,642			
	Operation weight			kg	752	846	968	1,747	1,088	1,777	1,813	2,098	2,104	2,250	2,338	2,281	2,318	2,751	2,821	2,916	3,421	3,675	4,148	4,550	4,692			
Water heat exchanger	Type				Brazed plate																							
	Water volume			l	5	6	9	11	12		11	16	14	19	20	19		20		28		42	50					
	Water flow rate	Cooling	Nom.	l/s	3.9	5.2	6.5	8	7.9	9	10	10.7	11.4	12.6		13.6	14.4	15.7	16.5	18.8	21	23.9	27.3	29.6	31.5			
	Water pressure drop	Cooling	Nom.	kPa	27.8	34.2	28	36.3	38	44.2	37.7	44	48.2	35.6	55.1	40.6	45.1	71.4	57.9	49.5	60.2	52.5	66.5	62.6	69.7			
Air heat exchanger	Type				Microchannel																							
Compressor	Type				Scroll compressor																							
	Quantity				2			4	2		4		2		4		3		4		3		4		5		6	
Fan	Type				Direct propeller																							
	Quantity				6	8	10	4	10		4		5		6		7		8	9	10	12	13	14				
	Air flow rate	Nom.		l/s	6,673	8,896	11,122	15,054	11,122		15,054	18,819	18,818		22,582		26,346	30,110	33,874	37,637	45,164	48,928	52,692					
	Speed			rpm		1,108		700	1,108						700													
Sound power level	Cooling	Nom.		dBA	77.9	81.9	84	84.2	86	84.5	84.8	86.2	85.8	86.6	87	86.7	86.9	87.7	87.6	88.3	88.9	89.3	90	90.4	90.7			
Sound pressure level	Cooling	Nom.		dBA	60.2	63.9	65.6	65.3	67.7	65.5	65.8	66.7	66.3	67.1	67.5	67.2	67.4	67.8	67.7	68.3	68.5	68.9	69.2	69.3	69.6			
Refrigerant	Type/GWP				R-32/675																							
	Charge			kg	9	10	11	12		20		23.5	24	27.5		28	27.5	32	31	36	43.5	49	55	60	66			
	Circuits	Quantity			1			2	1		2		1		2	1	2	1	2									
Piping connections	Evaporator water inlet/outlet (OD)				76.1			88.9	76.1		88.9	76.1		88.9	76.1		88.9	76.1	88.9		114.3							
Unit	Starting current	Max		A	215	315	328	290	464	388	399	506	414	543		554		564	592	602	640	678	727	779	817	855		
	Running current	Cooling	Nom.	A	59	71	83	113	118	128	143	134	151	164	177	179	194	204	221	250	276	319	352	381	410			
	Max		A	75	87	100	149	134	160	171	176	186	213		224	235	262	273	311	348	397	449	487	525				
Power supply	Phase/Frequency			Hz	3~/50																							



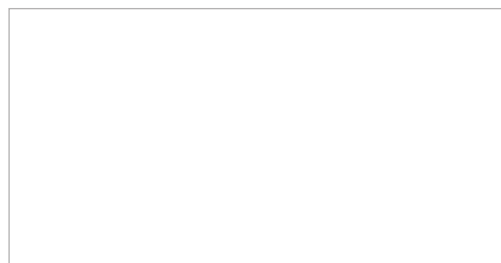
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ECPEN20-406

11/20



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Копия сформирована: 03.10.2026 17:39 UTC