

AIR-COOLED SCROLL CHILLERS WITH GREENSPEED® INTELLIGENCE



Unit with low noise level option

High full-load and part-load efficiency

Compact and simple to install

Low sound level

Low refrigerant charge

Superior reliability

30RBM 160-520



Nominal cooling capacity 164-528 kW

AquaSnap liquid chillers are the best solution for commercial and industrial applications where installers, engineering and design departments and building owners require reduced installation costs, optimal performance and the highest quality.

The new generation of AquaSnap liquid chillers feature two new versions:

- The AquaSnap (30RBM) version features a compact all-in-one package optimised for full-load applications where reduced investment cost (low CapEx) is required. For cold or hot climates, the AquaSnap can be equipped with specific options to operate from -20°C up to +52°C.
- The AquaSnap Greenspeed® (30RBP) version is a compact all-in-one package optimised for part-load applications where high ESEER, SEPR and IPLV are required. The AquaSnap Greenspeed®, equipped with a variable speed pump and fans, provides premium part-load efficiency to reduce maintenance costs over the lifespan of the chiller. Additionally, the low sounds levels achieved at part load conditions can be very beneficial for sensitive acoustic applications. Besides operating efficiently and quietly, the AquaSnap Greenspeed® operates from -20°C up to +48°C as standard.



CARRIER participates in the ECP programme for LCP/HP
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PHYSICAL DATA, SIZES 160 TO 520

30RBM		160	180	200	220	260	300	330	360	400	430	470	520		
Cooling															
Standard unit Full load performances*	CA1	Nominal capacity	kW	168	181	198	216	261	300	331	365	397	430	464	523
		EER	kW/kW	3,04	3,12	2,98	2,97	2,90	2,97	2,92	2,95	2,90	2,94	2,90	2,90
		Eurovent class		B	A	B	B	B	B	B	B	B	B	B	B
	CA2	Nominal capacity	kW	216	247	263	297	336	393	428	475	510	556	593	676
		EER	kW/kW	3,6	3,89	3,59	3,7	3,37	3,53	3,4	3,47	3,37	3,45	3,34	3,38
		Eurovent class		C	A	C	B	D	C	D	D	D	D	E	D
Standard unit Seasonal energy efficiency**	SEER_{12/7°C} Comfort low temp.		kWh/kWh	4,15	4,18	4,10	4,09	4,10	4,15	4,19	4,21	4,16	4,15	4,12	4,10
	ηs cool_{12/7°C}		%	163	164	161	161	161	163	165	165	163	163	162	161
	SEPR _{12/7°C} Process high temp.		kWh/kWh	4,77	4,71	4,29	4,76	4,33	4,56	4,46	4,67	4,50	4,79	4,64	4,74
Unit + option 6 Seasonal energy efficiency**	SEPR_{-2/-8°C} Process medium temp. ***		kWh/kWh	2,81	3,08	3,14	2,99	3,13	3,05	3,04	2,76	3,23	NA	NA	NA
Part Load integrated values	IPLV.SI	kW/kW	4,566	4,570	4,538	4,508	4,500	4,610	4,612	4,690	4,579	4,618	4,555	4,579	
Sound levels															
Standard unit															
Sound power ⁽³⁾		dB(A)	91	92	92	92	92	93	93	93	93	94	94	94	
Sound pressure level at 10 m ⁽⁴⁾		dB(A)	59	60	60	60	60	60	60	61	61	62	62	62	
Standard unit + option 15⁽¹⁾															
Sound power ⁽³⁾		dB(A)	89	90	90	90	90	91	91	92	92	93	93	93	
Sound pressure at 10 m ⁽⁴⁾		dB(A)	57	58	58	58	58	59	59	60	60	61	61	61	
Standard unit + option 15LS⁽¹⁾															
Sound power ⁽³⁾		dB(A)	85	85	85	86	86	86	86	87	87	88	88	88	
Sound pressure at 10 m ⁽⁴⁾		dB(A)	53	53	53	54	54	54	54	55	55	55	55	56	
Dimensions - standard unit															
Length		mm	2410				3604				4797				
Width		mm	2253				2253				2253				
Height		mm	2322				2322				2322				
Length, unit with water buffer tank option		mm	3604				4798				5991				
Operating weight⁽²⁾															
Standard unit		kg	1204	1241	1242	1372	1393	1846	1882	2046	2102	2518	2536	2730	
Standard unit + option 15 ⁽¹⁾		kg	1287	1324	1324	1480	1501	1972	2007	2189	2246	2681	2699	2910	
Standard unit + option 15 + option 116W ⁽¹⁾		kg	1426	1464	1464	1619	1655	2131	2212	2393	2449	2923	2940	3191	
Standard unit + option 15 + option 116W + water buffer tank option		kg	2374	2407	2408	2562	2599	3071	3151	3329	3385	3855	3872	4119	

* In accordance with standard EN14511-3:2013.
 ** In accordance with standard EN14825:2016
 *** With EG 30%
 CA1 Cooling mode conditions: evaporator water inlet/outlet temperature 12 °C/7 °C, outdoor air temperature 35 °C, evaporator fouling factor 0 m². k/W
 CA2 Cooling mode conditions: evaporator water inlet/outlet temperature 23 °C/18 °C, outdoor air temperature 35 °C, evaporator fouling factor 0 m². k/W
 ηs cool_{12/7°C} & SEER_{12/7°C} **Bold values compliant to Ecodesign regulation: (EU) No 2016/2281 for Comfort application**
 SEPR_{12/7°C} Values calculated in accordance with EN14825:2016
 SEPR_{-2/-8°C} **Bold values compliant to Ecodesign regulation: (EU) No 2015/1095 for Process application**
 NA Not Authorised for the specific application for the CEE market
 IPLV.SI Calculations according to standard performances AHRI 551-591 (SI).
 (1) Options: 15 = Low noise level, 15LS = Very Low Noise level, 116S = High pressure dual-pump hydraulic module
 (2) Weights are guidelines only. Refer to the unit name plate.
 (3) In dB ref=10⁻¹² W, (A) weighting. Declared dual-number noise emission values in accordance with ISO 4871 (with an associated uncertainty of +/-3 dB(A)). Measured in accordance with ISO 9614-1 and certified by Eurovent
 (4) In dB ref 20µPa, (A) weighting. Declared dual-number noise emission values in accordance with ISO 4871 (with an associated uncertainty of +/-3 dB(A)). For information, calculated from the sound power Lw(A).



Valeurs certifiées Eurovent