

### AQUASNAP® WITH R-32: MORE EFFICIENT, MORE SUSTAINABLE



# AquaSnap<sup>®</sup> with R-32 refrigerant



 RANGE: Air-Cooled Scroll Chiller and Air-to-Water Heat Pump
30RB & 30RBP
40 kW – 940 kW cooling
30RQ & 30RQP
40 kW – 940 kW cooling
40 kW – 1040 kW heating
REFRIGERANT: R-32 with GWP = 675

SEER

5,33

SCOP

4,00



# **High efficiency**



#### **30RB**

40 kW – 160 kW Fixed-speed or variable fans (EC fans) Multiple stage scroll compressors



SEER Up to 8% above Ecodesign 2021 requirements

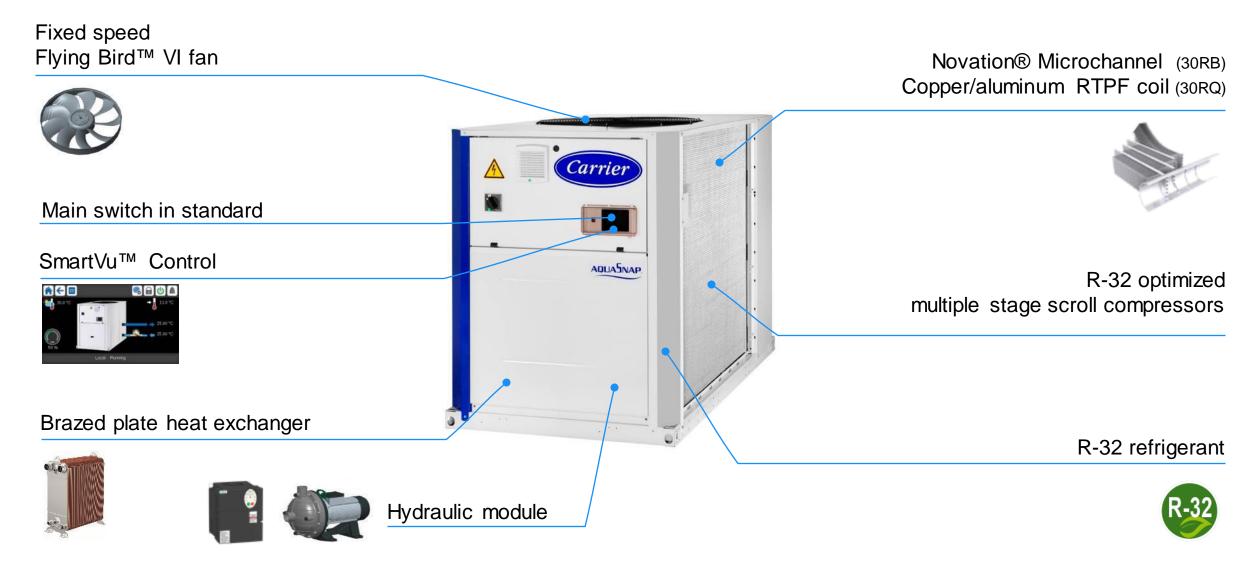


#### **30RQ**

**40 kW –150 kW** Fixed-speed or variable fans (EC fans) Multiple stage scroll compressors SCOP Up to 4,00 SCOP Up to 22% above Ecodesign requirements



# **Industry-leading Carrier technologies**





# **Two levels of efficiency**



<b>30RBP with Greenspeed™ intelligence</b> <b>165 kW – 940 kW</b> Variable speed fans (Drive or EC motors) Multiple stage scroll compressors	SEER Up to 5,33 SEPR Up to 6,62 SEER Up to 20%
30RB	SEER SEPR above Ecodesign 2021
165 kW – 940 kW Fixed speed AC fans Multiple stage scroll compressors	Up to 4,44 Up to 5,39 requirements
30RQP with Greenspeed™ intelligence	
	SCOP Up to 3,96 SCOP Up to 20%
<b>30RQP with Greenspeed ™ intelligence</b> <b>175 kW – 1040 kW</b> Variable speed fans (Drive or EC motors)	Up to 3,96 SCOP



Carrie

# **Industry-leading Carrier technologies**







# Upgraded technologies 30RBP & 30RQP

Variable speed Flying Bird® VI fan (Variable speed drive with EC motors option)



Drive (fans & pump) integrated in electrical box





Variable speed pump (option) Up to 940 kW



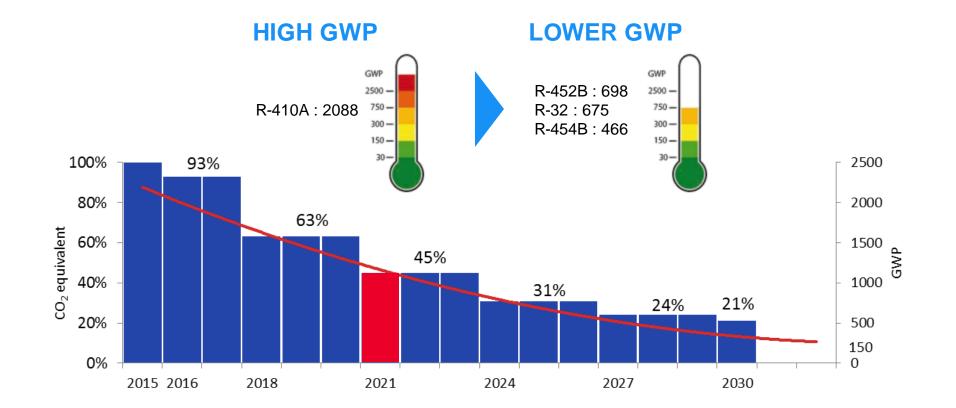




# R-32, THE BEST REFRIGERANT SOLUTION FOR SCROLL CHILLERS



### **EU F-Gas regulation**



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Note: GWP according to IPCC AR4

### Why R-32 for scroll chillers?



Up to 77% less CO<sub>2</sub> equivalent than R-410A

R-32 helps protecting the environment and preserving HFC quotas



Up to 10% more energy efficient

Compared with R-410A and suitable for all climates





**User friendly** 

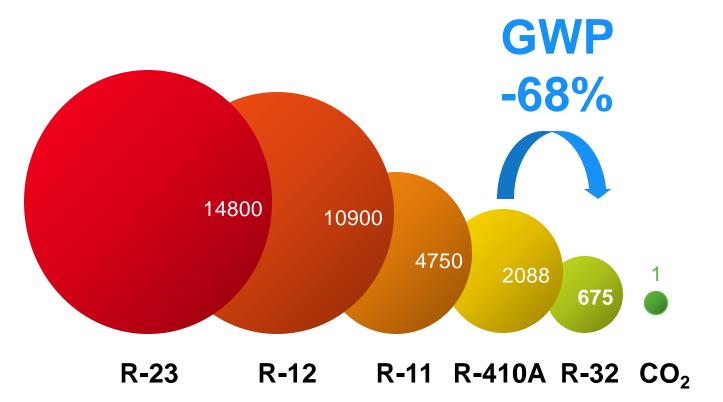
R-32 is available anywhere Easy installation, commissioning and maintenance\*

Safe

\* Specific safety requirements may apply for equipment transportation, operation and servicing



### **Environmentally responsible**



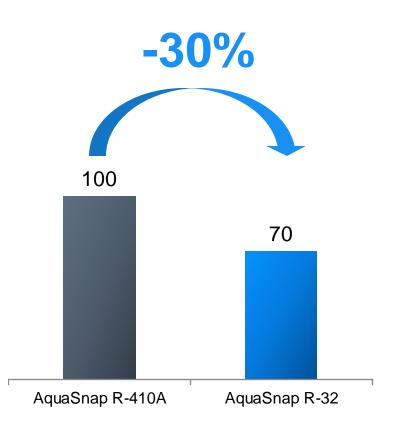


Note: GWP according to IPCC AR4

### **Environmentally responsible**

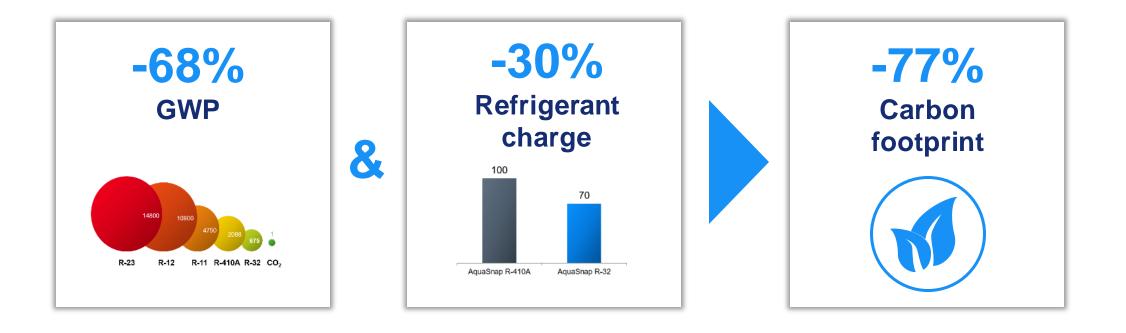
#### **Refrigerant charge reduction due to:**

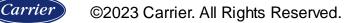
- R-32 thermodynamic properties
- Optimized component selection for R-32





### **Environmentally responsible**



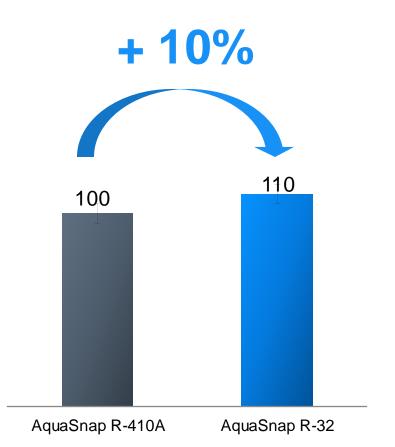


### **R-32 Energy seasonal efficiency**



# AquaSnap R-32 chillers exceed Ecodesign 2021 SEER requirements thanks to:

- Multiple scroll compressors
- Asymmetric brazed plate heat exchangers
- Smart energy monitoring function
- Greenspeed<sup>®</sup> intelligence on premium versions: combination of variable speed pump, variable speed fans and Carrier algorithms on control for premium efficiency



Carrier

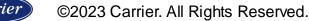
### **R-32 User friendliness**



#### **User friendliness**

- R-32 is a tried and trusted solution already used in residential air conditioners (millions AC in use.)
- Easy refrigerant charge complement
- It is available from all refrigerant distributors in cylinders of 5, 10, 20 or 45 kg with top in red color.



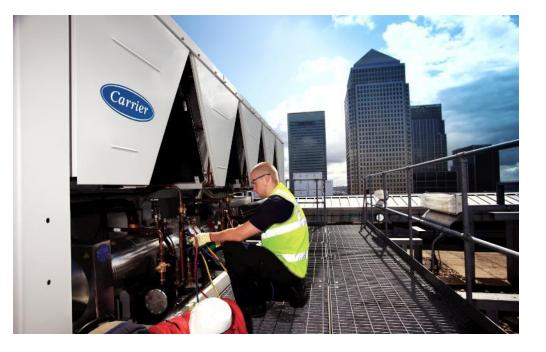






#### Safety

- Specific safety rules for compliance with UN3358 for road transportation and DS291 IMDG for sea shipping
- Service tools must be qualified for A2L refrigerants according to ISO 817 or EN378
- Service engineers shall be qualified for brazing of components containing PED fluid group 1





# Specific safety rules for compliance with UN3358 for road transportation and DS291 IMDG for sea shipping

- Road transportation
  - UN code: 3358 REFRIGERATING MACHINES containing flammable, non-toxic, liquified gas
  - Road tunnels class D & E not allowed
- Sea transportation
  - International Maritime Dangerous Goods (IMDG) code: DS 291
- Air transport
  - Not allowed





# KEY BENEFITS



# AquaSnap with R-32



Up to **10%** higher energy efficiency than R-410A

#### **Performances**

- Multiple scroll compressors able to match load requirements
- Asymmetric brazed plate heat exchangers with true dual-circuit design for high performance in both full- and partial-load conditions
- Smart energy monitoring function (165-940 kW) providing real time capacity provided and energy consumption measurement
- Greenspeed<sup>®</sup> intelligence on 30RBP and 30RQP premium versions: variable-speed fans and variablespeed pumps
- Performance exceeding Ecodesign 2021 SEER requirements



## AquaSnap with R-32



Different climates From -20°C to 48°C

external temperatures

Various applications from **-8°C to 20°C** (light process cooling, HVAC, chilled beam, etc.)

#### **Extensive scope of application**

- Carrier's AquaSnap<sup>®</sup> 30RB & 30RBP and 30RQ & 30RQP adapt easily to a wide range of applications.
- Extended operating temperatures from -20°C to 48°C outdoor air temperatures and water temperatures, from 8°C to 20°C make it ideal for various sectors of activity.
- From high-end office buildings and hotels to healthcare facilities and industrial projects, AquaSnap<sup>®</sup> 30RB & 30RBP and 30RQ & 30RQP are the perfect solutions to combine competitive price associated with high energy efficiency whatever the climate.



## AquaSnap with R-32

#### **One range**



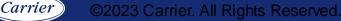
#### **Many applications**



Carrier



# INDUSTRY-LEADING CARRIER TECHNOLOGIES



## **New R-32 scroll compressors**

#### **Optimized R-32 scroll compressors**

- Specific & optimized R-32 compressors
- Enlarge range up to 940 kW
- Multiple large compressors on only two independent refrigerant circuits
- Able to match load requirements
- Operates efficiently at minimum load
- Large capacity stage to improve part load requirements (3 to 8 stages)







## New coils heat exchangers

#### 2<sup>nd</sup> generation of "V" shape Novation<sup>®</sup> Micro Channel Heat Exchangers (cooling only)

- Exclusive Carrier design
- High reliability with long-life aluminum alloy
- Significantly reduces refrigerant load (-40% vs cu/al coils)
- Enviro-shield<sup>™</sup> coating for mildly corrosive environments
- Super Enviro-shield<sup>™</sup> coating for highly corrosive environments (industry or marine applications)

#### New copper/aluminum coil design (Heat Pump)

- New design with smaller tube
- Significantly reduces refrigerant load (-30% vs previous version)







### New plate heat exchanger

#### **Brazed plate heat exchanger (BPHE)**

- Large Brazed Plate Heat Exchangers on all models
- New design with asymmetric channels to reduce pressure drops & fouling on water side
- True dual-circuit design up to 940 kW for optimal energy performance in all conditions
- Reliable construction with AISI 316 stainless steel plates
- Compact and light design reducing refrigerant charge vs shell and tube heat exchangers







# New Flying Bird<sup>™</sup> fans

#### 6<sup>th</sup> generation Flying Bird<sup>™</sup> fans

- A fan using aeronautical research technology
- New multi blade design inspired by nature for improved performance
- Less power consumption
- New composite fan stack with aerodynamic air flow improvement
- Recyclable composite material
- No risk of corrosion
- Variable speed fans by drive or EC motors available to improve seasonal performances







# New hydraulic module

#### **Built-in Hydronic module**

- Single or dual pump with operating time balancing and automatic changeover
- Low or high-pressure
- Fixed speed (30RB/RQ) or variable-speed
- Victaulic screen filter
- Numerical display of the water flow rate and pressures
- Thermal insulation (19mm) and frost protection down to -20°C, using trace heating (option)
- Expansion tank (option)
- Water buffer tank (option)



## **New SmartVu™ Touch Screen**

#### Advanced SmartVu<sup>™</sup> touch screen interface

- 4.3" user-friendly touch screen
- Up to 9 languages
- All main parameters displayed on one screen
- Direct access to the unit's technical drawings and main service documents
- WEB connectivity
- BMS connectivity
- F-Gas leak detection schedule alert
- Easy and secured access to unit parameters
- Smart Energy Monitoring (165-940 kW)









# TECHNICAL CHARACTERISTICS



### **30RB EFFICIENCY**

30RB		170R	190R	210R	230R	270R	310R	340R	380R	410R	450R	480R	550R	610R	670R	720R	770R	800R	870R	950R
STANDARD UNIT																				
NOMINAL CAPACITY *	KW	172	188	207	227	270	311	346	380	416	451	484	553	616	677	726	782	807	882	943,63
CA1																				
EER*	KW/KW	3,20	3,31	3,17	3,17	3,03	3,15	3,09	3,14	3,09	3,14	3,09	3,08	3,15	3,14	3,06	3,07	3,04	3,00	2,92
SEER 12/7°C COMFORT LO	W TEMP. KWH/KWH	4,28	4,35	4,28	4,24	4,26	4,43	4,44	4,25	4,61	4,72	4,73	4,76	4,82	4,85	4,80	4,84	4,83	4,82	4,75
SEER 23/18°C COMFORT M	IEDIUM TEMP. KWH/KWH	5,17	5,32	5,13	5,07	4,97	5,31	5,29	5,12	5,59	5,79	5,76	5,75	6,06	6,01	5,88	6,01	5,97	6,00	5,83
SEPR -2/-8°C PROCESS ME	DIUM TEMP. KWH/KWH	3,09	3,13	3,11	3,02	3,08	3,02	3,07	3,02	3,08	3,05	3,07	3,07	3,45	3,38	3,42	3,36	3,38	3,33	3,36

Eurovent certified values



\* In accordance with standard EN14511-3:2018.

CA1 Cooling mode conditions: Evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fooling factor 0 m<sup>2</sup>.K/W SEER 12/7°C Applicable Ecodesign regulation: (EU) No 2016/2281 SEER 23/18°C Applicable Ecodesign regulation: (EU) No 2016/2281 SEPR -2/-8°C Applicable Ecodesign regulation: (EU) No 2015/1095



### **30RBP PREMIUM EFFICIENCY**

30RBP		170R	190R	210R	230R	270R	310R	340R	380R	410R	450R	480R	550R	610R	670R	720R	770R	800R	870R	950R
STANDARD UNIT				_	-		_								_					
NOMINAL CAPACITY *	KW	172	187	206	227	270	311	346	380	416	451	484	553	616	677	726	782	807	882	944
EER*	KW/KW	3,20	3,36	3,21	3,16	3,03	3,15	3,09	3,14	3,09	3,14	3,09	3,08	3,15	3,14	3,06	3,07	3,04	3,00	2,92
SEER 12/7°C COMFORT LOW	/ TEMP. KWH/KWH	4,82	5,02	4,84	4,94	4,79	5,25	5,15	5,09	5,11	5,28	5,24	5,29	5,32	5,32	5,20	5,33	5,30	5,31	5,18
SEER 23/18°C COMFORT ME	DIUM TEMP. KWH/KWH	5,98	6,23	5,93	5,99	5,69	6,35	6,17	6,13	6,07	6,33	6,23	6,32	6,56	6,51	6,28	6,54	6,47	6,56	6,32
SEPR -2/-8°C PROCESS MED	ium temp. Kwh/kwh	3,48	3,60	3,54	3,41	3,41	3,51	3,56	3,50	3,57	3,55	3,55	3,55	3,91	3,82	3,83	3,79	3,80	3,74	3,74

Eurovent certified values



\* In accordance with standard EN14511-3:2018.

CA1 Cooling mode conditions: Evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fooling factor 0 m<sup>2</sup>.K/W SEER 12/7°C Applicable Ecodesign regulation: (EU) No 2016/2281 SEER 23/18°C Applicable Ecodesign regulation: (EU) No 2016/2281 SEPR -2/-8°C Applicable Ecodesign regulation: (EU) No 2015/1095



### **30RQ STANDARD EFFICIENCY**

30RQ		165R	180R	210R	230R	270R	310R	330R	370R	400R	430R	470R	520R
HEATING - STANDARD UNIT	г			-	-	-				-			
NOMINAL CAPACITY *	KW HA1	178	197	237	256	275	317	336	387	406	441	467	537
COP*	KW/KW	3,88	3,80	3,84	3,84	3,82	3,82	3,81	3,82	3,81	3,80	3,73	3,80
SCOP30/35°C	КМН/КМН	3,44	3,45	3,39	3,47	3,48	3,57	3,58	3,55	3,57	3,54	3,53	3,57
COOLING - STANDARD UNI	т												
NOMINAL CAPACITY *	KW CA1	164	181	215	236	254	302	324	362	381	413	439	500
EER*	KW/KW	2,87	2,73	2,86	2,81	2,76	2,85	2,80	2,82	2,76	2,82	2,74	2,74
SEER 12/7°C COMFORT LO	W TEMP. KWH/KWH	3,91	3,81	3,88	3,88	3,84	4,15	4,21	4,14	4,07	4,04	4,03	4,05

Eurovent certified values



\* In accordance with standard EN14511-3:2018.

HA1 Heating mode conditions: Water heat exchanger water entering/leaving temperature  $30^{\circ}C/35^{\circ}C$ , outside air temperature tdb/twb = 7°C db/6°C wb, evaporator fooling factor 0 m<sup>2</sup>.K/W CA1 Cooling mode conditions: Evaporator water entering/leaving temperature  $12^{\circ}C/7^{\circ}C$ , outside air temperature  $35^{\circ}C$ , evaporator fooling factor 0 m<sup>2</sup>.K/W SCOP  $30/35^{\circ}C$  Bold values compliant to Ecodesign regulation: (EU) No 813/2013 for Heat Pump application SEER  $12/7^{\circ}C$  Applicable Ecodesign regulation: (EU) No 2016/2281



### **30RQP PREMIUM EFFICIENCY**

30RQP		165R	180R	210R	230R	270R	310R	330R	370R	400R	430R	470R	520R	620R	660R	740R	800R	860R	940R	1040R
HEATING - STANDARD UNIT								-												
NOMINAL CAPACITY *	KW	178	197	237	256	275	317	336	387	406	441	467	537	635	673	774	812	883	935	1075
COP*	KW/KW	3,88	3,80	3,84	3,84	3,82	3,82	3,81	3,82	3,81	3,80	3,73	3,80	3,82	3,81	3,82	3,81	3,80	3,73	3,80
SCOP30/35°C	KWH/KWH	3,67	3,66	3,74	3,77	3,80	3,87	3,86	3,90	3,91	3,92	3,89	3,96	3,87	3,86	3,90	3,91	3,92	3,89	3,96
COOLING - STANDARD UNIT																				
NOMINAL CAPACITY *	KW	164	181	215	236	254	302	324	362	381	413	439	500	604	648	723	761	825	878	999
EER*	KW/KW	2,87	2,72	2,86	2,80	2,76	2,85	2,80	2,82	2,76	2,81	2,74	2,73	2,85	2,80	2,82	2,76	2,81	2,74	2,73
SEER 12/7°C COMFORT LOW	TEMP. KWH/KWH	4,41	4,23	4,48	4,41	4,34	4,78	4,81	4,88	4,87	4,81	4,75	4,81	4,78	4,81	4,88	4,87	4,81	4,75	4,81

Eurovent certified values



\* In accordance with standard EN14511-3:2018.

HA1 Heating mode conditions: Water heat exchanger water entering/leaving temperature 30°C/35°C, outside air temperature tdb/twb = 7°C db/6°C wb, evaporator fooling factor 0 m<sup>2</sup>.K/W CA1 Cooling mode conditions: Evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fooling factor 0 m<sup>2</sup>.K/W SCOP 30/35°C Bold values compliant to Ecodesign regulation: (EU) No 813/2013 for Heat Pump application SEER 12/7°C Applicable Ecodesign regulation: (EU) No 2016/2281



### **30RB/30RBP PHYSICAL DATA**

30RB-30RBP		170R	190R	210R	230R	270R	310R	340R	380R	410R	450R	480R	550R	610R	670R	720R	770R	800R	870R	950R
SOUND POWER LEVELS **																				
STANDARD UNIT	dB(A)	91,0	91,5	91,5	92,0	92,0	93,0	93,0	93,5	93,5	94,0	94,0	94,5	97,5	97,5	98,0	98,0	98,5	98,5	99,0
UNIT + OPTION 15LS	dB(A)	85,5	85,5	85,5	86,5	86,5	87,5	87,5	88,0	88,0	88,5	88,5	89,0	92,5	92,5	93,0	93,0	93,5	93,5	94,5
STANDARD UNIT											I									
LENGTH - WIDTH - HEIGHT	mm	2410 2253 2324	2410 2253 2324	2410 2253 2324	2410 2253 2324	2410 2253 2324	3604 2253 2324	3604 2253 2324	3604 2253 2324	3604 2253 2324	4798 2253 2324	4798 2253 2324	4798 2253 2324	5992 2253 2324	5992 2253 2324	5992 2253 2324	7186 2253 2324	7186 2253 2324	7186 2253 2324	7186 2253 2324
REFRIGERANT***				R	32 / A2I	L / GWI	P=675 f	ollowin	g AR4	1	1									

Eurovent certified values



\*\* In dB ref=10<sup>-12</sup> W, 'A' weighted. Declared dual-number noise emission values in accordance with ISO 4871 with an associated uncertainty of +/-3dB(A). Measured in accordance with ISO 9614-1 and certified by Eurovent.

\*\*\* Values are guidelines only. Refer to the unit name plate.



### **30RQ/30RQP PHYSICAL DATA**

30RQ-30RQP	)	165R	180R	210R	230R	270R	310R	330R	370R	400R	430R	470R	520R	620R	660R	740R	800R	860R	940R	1040R
SOUND POWER LEVELS **																				
STANDARD UNIT	dB(A)	90,5	91,0	91,5	92,0	92,0	93,0	93,5	94,0	94,0	94,5	94,5	95,0	96,0	96,5	97,0	97,0	97,5	97,5	98,0
UNIT + OPTION 15LS	dB(A)	85,0	86,0	86,5	87,0	87,0	88,0	88,0	89,0	89,0	89,5	90,0	90,0	91,0	91,0	92,0	92,0	92,5	93,0	93,0
STANDARD UNIT																				
LENGTH - WIDTH - HEIGHT	mm	2410 2253 2324	2410 2253 2324	2410 2253 2324	2410 2253 2324	2410 2253 2324	3604 2253 2324	3604 2253 2324	3604 2253 2324	3604 2253 2324	4798 2253 2324	4798 2253 2324	4798 2253 2324	7708 2253 2324	7708 2253 2324	7708 2253 2324	7708 2253 2324	10096 2253 2324	10096 2253 2324	10096 2253 2324
REFRIGERANT***				R	32 / A2L	/GWP	=675 fol	lowing	AR4		1									

Eurovent certified values



\*\* In dB ref=10<sup>-12</sup> W, 'A' weighted. Declared dual-number noise emission values in accordance with ISO 4871 with an associated uncertainty of +/-3dB(A). Measured in accordance with ISO 9614-1 and certified by Eurovent.

\*\*\* Values are guidelines only. Refer to the unit name plate.



# **Options**

- Very low noise level
- EC fans
- Partial or total heat recovery
- Partial or total Free Cooling with or without glycol
- Soft Starter per compressor / per circuit
- Winter operation down to -20°C
- Brine application
- Frost protection
- Hydronic module
  - HP/LP fixed speed single/dual-pump
  - HP variable speed single/dual-pump
  - Expansion tank
  - Water buffer tank

- Lead/lag operation
- Lon or Bacnet/IP or J-Bus over IP & RS485 gateways
- Energy management module\*
- Ultra Fast capacity recovery\*
- Power Input Energy metering\*
- IT Neutral\*
- Phase Control\*
- M C2 Class\*
- Input contact for refrigerant leak detection \*
- Coil defrost resistance heaters \*\*
- Anti-corrosion coil protection
- Welded evaporator water connection kit
- 230V electrical plug \*
- Compressor suction and discharge valves \*
- Unit equipped for air discharge ducting



# BLUEDGE®



Your Service Partner a Solution for Every Situation

MODERNISATION Complete replacement and upgrade of units at the end of their life cycle

> CONSULTANCY Expertise on site assessment and regulatory topics

> > **RENTAL** As an insurance program



**COMMISSIONING** On-site start up

**MAINTENANCE** Regular upkeep of installations

**REMOTE CONNECTIVITY** Diagnosis, data analysis

**REPAIRS** Punctual breakdown repair, parts direct from manufacturer

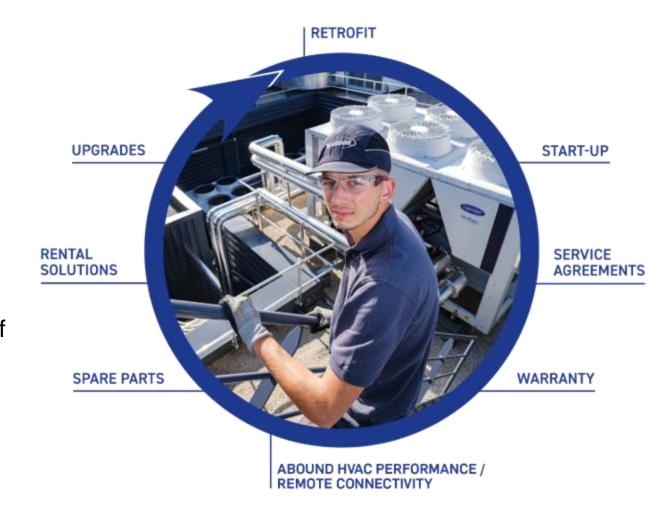
HEALTHYBUILD

### BLUEDGE® - YOUR SERVICE PARTNER



#### A solution for Every Situation

At Carrier, we believe long-term partnerships are the basis of exceptional service. We will work with you to fully understand the needs of your business, and to propose adapted solutions through your product lifecycle.





## **BLUEDGE - YOUR SERVICE PARTNER**

#### **Customer focus**

As your preferred partner, Carrier designs tailored Service programs to meet your goals and optimize your business performance. Our BluEdge service platform is designed to meet your requirements and keep your equipment running efficiently. We can help you create a customized program that is suited to your specific goals and needs.

#### **Proximity & responsiveness**

Expert Carrier technicians are there to take action quickly. Our comprehensive and highly efficient maintenance processes mean your equipment will soon be back in action.

#### **Expertise & consultancy**

Your Carrier experts can help you find the right balance between energy efficiency and your investments' optimization with our wide choice of technologies and solutions. Thanks to the data analyzed via our Connected Services and the expertise of our internal Innovations team, we are able to offer the highest level of consultancy







#### Digital Center VENCE, France

#### **European Service Digital Center (ESDC)**

Dedicated team of engineers at your service :

- IoT & Digital
- Automation & Controls
- Cooling & Heating
- Project Assessment & Expertise
- Training Center

6 000 CHILLERS CONNECTED

500+ PLANTCTRL

#### REMOTE CONNECTIVITY

Chillers HVAC Machines HVAC Plant Energy Metering

#### PLANT ROOM

PlantCTRL & Controls Training Center Gateways Carrier ProView Thermal Energy Storage

HVAC SYSTEMS

Healthy Building Small HVAC BMS Airside control **ESDC** 

PlantCTRL Controls Connected Services Smart CIATControls Protocols

### ABOUND HVAC PERFORMANCE (Remote Connectivity)

ABOUND HVAC Performance Connecting your equipment to ABOUND HVAC <u>Peformance's</u> cloudbased IoT platform, ensure securely sharing real-time data to Visualize, Analyze and Optimize machine health and life cycle outcomes.



24/7 remote monitoring



Proactivity to anticipate breakdowns



Precision monitoring



Demonstrated maintenance impact

Easy and secured access



- Rooftop performance monitored 24/7/365
- Real-time data
- Historical analysis to improve diagnosis and maintenance needs
- Digitally connected Carrier technicians for quick on-site intervention
- Carrier experts support to decide on the most relevant actions to take



#### **Carrier PlantCTRL<sup>™</sup>**

The PlantCTRL<sup>™</sup> system regulates, controls & optimizes the operation and energy consumption of your heating and cooling production plant. Available for all applications, this system is able to manage and pilot all cooling & heating production components and all associated hydraulic devices.

Thanks to its remote monitoring capabilities, we can provide support from a distance.

The PlantCTRL<sup>™</sup> system reduces your operating & maintenance costs while guaranteeing a quick return on investment:





Optimize energy consumption of the installation



Decrease equipment down-time



Secure connection to the industrial facility



SPARE PARTS European Parts Center (ERCD)

DEDICATED TEAM & EXPERT ADVICES

500 Suppliers

12,000 Items on stock

**176,000** Order lines\* **1,000,000+** Parts sold\*

www.store-eu.carrier.com

E- Commerce Website dedicated to Spare Parts

95% DELIVERIES ON TIME\* 5,6/7 CUSTOMER SATISFACTION\*

90K+

MANAGED PARTS

NUMBER\*

#### 20+ FACTORIES IN EUROPE

\*in 2019



# Your service partner - Carrier Rental Systems



+35 Depots



Temporary short-, medium- and long-term cooling and heating solutions for various customer needs:

- Seasonal capacity requirements
- Breakdown emergencies
- Planned service work

- Facility refurbishment
- Special events
- Contingency planning...

On-time and on-budget delivery, from system design to installation and decommissioning.







# THANK YOU

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