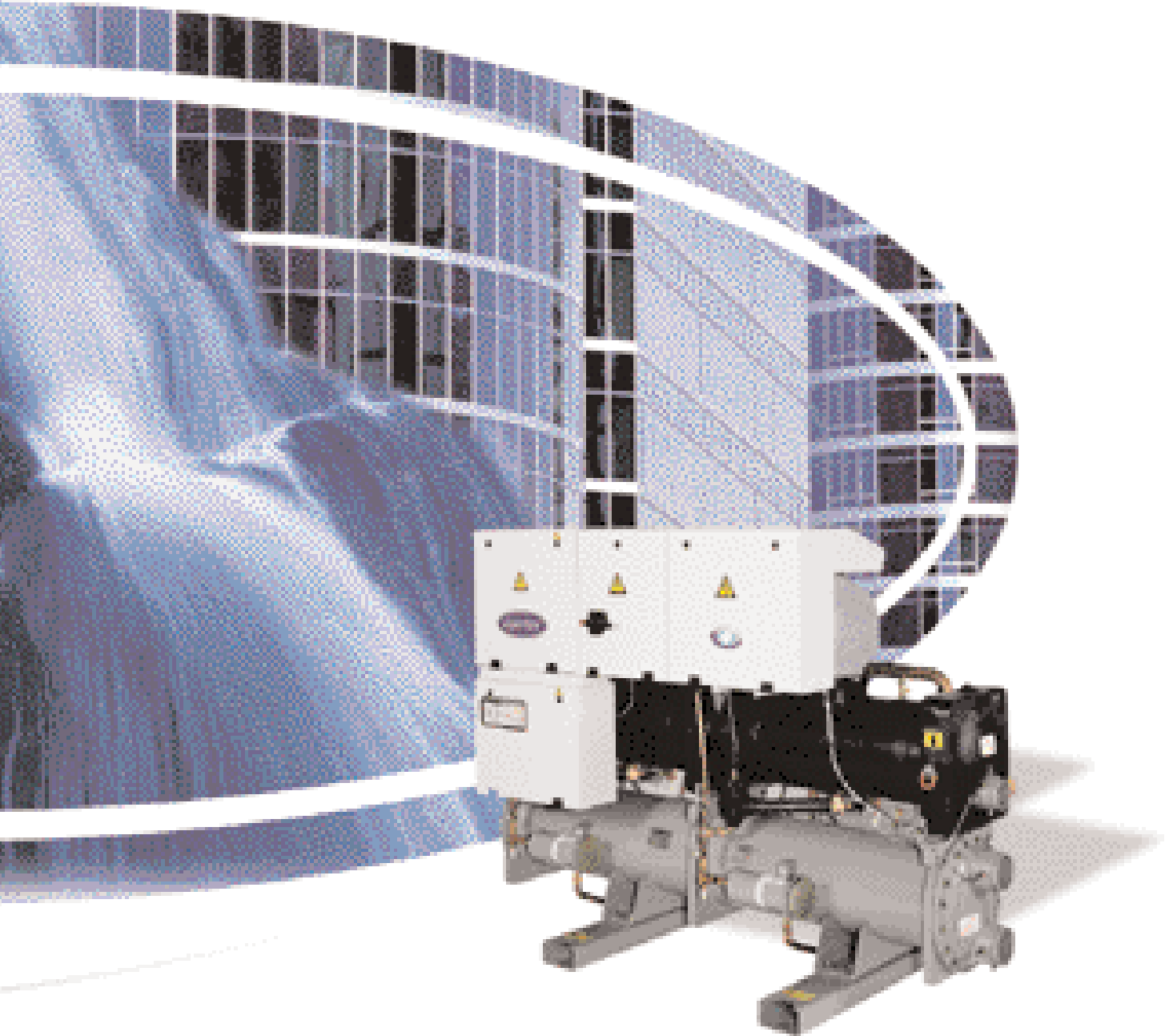




GLOBAL CHILLER™

LIQUID CHILLER

30HX



IN HARMONY WITH THE
ENVIRONMENT

GLOBAL CHILLER 30HX ADVANCED

ULTIMATE RELIABILITY

- More than 50000 Carrier screw compressors sold world-wide
- More than 99.6% reliability in the first operating year
- Dual-circuit design
- Intelligent control
- Motor cooled by refrigerant injection
- Manufactured in accordance with CE, ISO 9001 and ISO 14001 standards.

COMPACT SIZE - HIGH PERFORMANCE

- One of the most compact units on the market, for simplified installation, even in restricted plant rooms - without loss of performance
- State-of-the-art technology from the world leader: Power³ compressor, optimised for R-134a (30% more power than compressors that have not been optimised for R-134a).

- Who else but Carrier offers unrivalled performance and very competitive prices
- Performances guaranteed
- Easy installation for all applications
- First in its class for energy efficiency at full load and at part load.

WHATEVER YOUR APPLICATION, THE GLO

TECHNOLOGY THAT SETS NEW STANDARDS

PROFITABILITY

Carrier can offer you performance as standard, at prices.

Guaranteed by Eurovent even more savings energy efficiency at

MINIMISED SOUND LEVELS

- Vibration-free Power³ screw compressor
- Discharge muffler.

CONTROL AT YOUR FINGERTIPS

- Efficiency and simplicity combined
- Complete electronic control as standard, with an interface that is designed for greatest ease-of-use and user-friendliness
- Complete functionality with BMS connection provided as standard.

GLOBAL CHILLER WILL MEET YOUR NEEDS

30HX: OPTIMISED TECHNOLOGY

EFFICIENCY THAT CANNOT BE KEPT QUIET

The 30HX Global Chiller combines superior reliability with unmatched performance. It is user-friendly, environmentally neutral, compact, safe, easy to use, economical, powerful and quiet. It stands for concentrated technology and highest precision.

A chiller that meets all your expectations.

It offers high efficiency and protection of the environment, enhances your comfort and optimises profitability.

Advanced technology - the synergy of human and technological resources at Carrier.

The 30HX Global Chiller leads a new generation of chillers.

A breath of fresh air - progress and the environment in total harmony.

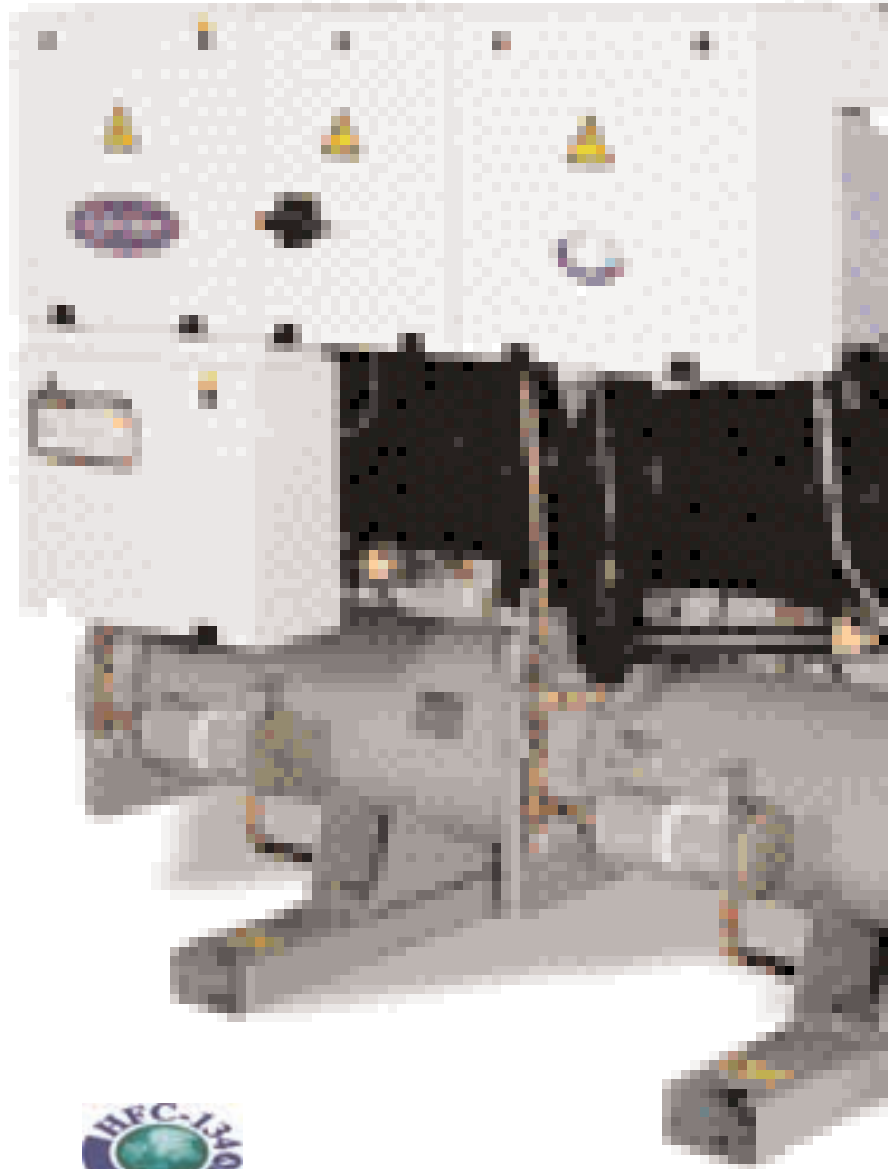


HFC-134A, A PURE REFRIGERANT THAT DOES NOT ENDANGER YOUR FUTURE

At last a refrigerant that is right for today, tomorrow and for the world around us. HFC-134a stands for safety and simplicity at all times. Safety, because it is non-toxic and non-flammable. Without chlorine, and that means without effect on the ozone layer. The greenhouse effect is reduced by 25% compared with R-22. HFC-134a is the ideal solution for medium and high capacities.

It strictly complies with European and international regulations. Simplicity, as it has been available on the market since 1995, and has been used in thousands of air conditioning systems around the world. Proven in service, it has rapidly shown its advantages and capabilities.

The environment belongs to those who protect it.



- LONG SERVICE LIFE

Performance has an important ally - peace-of-mind. Quiet assurance. A technological guarantee based on innovation and control.

Economical cooling, protection of the environment and the ozone layer, reduced compressor maintenance, auto-adaptive Pro-Dialog Plus control. Optimisation, combined with performance and economy. A single evaporator, a single condenser, simplified water connections. Reduced weight and length. The 30HX Global Chiller is designed, manufactured and tested in a factory that is certified to ISO 9001 and ISO 14001. Commissioning is immediate and trouble-free. Carrier is the world leader in its field, and this is certainly not by chance.

SUPERIOR EFFICIENCY FOR ADDITIONAL SAVINGS

The 30HX Global Chiller is designed to save money. Its energy efficiency provides performances that are 25% higher than those of liquid chillers operating with R-22. The proof: the innovative technologies chosen have resulted in a new, superior unit.

The Power³ screw compressor was specially designed for refrigerant HFC-134a - a revolution. An electronic expansion device optimises the evaporator refrigerant charge to maximise the use of the heat exchange surfaces - a Carrier patent. The multi-compressor concept ensures flexible and economical operation at part load - ideal adaptability. The evaporator has a low pressure drop - which results in reduced water pump costs. Real economies.

A COMPLETE SYSTEM

Carrier glycol coolers are supplied with the complete control box. All electrical and control components for the fans are factory-installed for quick commissioning without surprises.



30HX - THE MINIMUM SPACE CONCEPT

The 30HX Global Chiller is the smallest of the large chillers. Small in size, but great in performance, related to size. Real technological power. A significant space gain, with 10% less floor space required in plant rooms. A maximum length of 980 mm for two-compressor units, or 1015 mm for three- or four-compressor units. The Global Chiller needs minimal installation space. Compactness is the key word for a unique and unprecedented concept. The condenser incorporates the oil separator. Space at the service of performance.



30HX TECHNICAL DATA		080	090	100	110	120	130	140	155	175	190	200	230	260	285	310	345	375
Net nominal cooling capacity*	kW	290	315	345	378	413	454	515	547	604	638	707	805	893	975	1096	1193	1286
Nominal power input*	kW	59	67	74	84	88	99	112	122	133	141	154	177	206	216	243	278	296
Refrigerant		← HFC-134a →																
No. of refrigerant circuits		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Compressor		← Semi-hermetic twin-screw Power ³ compressor →																
No. of compressors		2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	4
No. of capacity stages		6	6	6	6	6	6	6	6	6	6	8	8	8	8	10	10	10
Control type		← PRO-DIALOG Plus →																
Evaporator type		← Shell and tube with internally finned copper tubes →																
Condenser type		← Shell and tube with internally finned copper tubes →																
Nominal power supply	V-ph-Hz	← 400-3-50 →																
Control circuit		The control circuit is supplied via a factory-installed transformer																
Length	mm	2558	2558	2558	2558	3275	3275	3275	3275	3275	3275	3903	3924	3924	3924	4533	4533	4533
Width	mm	980	980	980	980	980	980	980	980	980	980	1015	1015	1015	1015	1015	1015	1015
Height	mm	1800	1800	1800	1850	1816	1816	1816	1816	1940	1940	1980	2060	2060	2060	2112	2112	2112
Operating weight	kg	2274	2279	2302	2343	2615	2617	2702	2712	3083	3179	3873	4602	4656	4776	5477	5553	5721

*Standardised Eurovent conditions: evaporator water inlet/outlet = 12°C/7°C, condenser water inlet/outlet = 30°C/35°C
 Evaporator and condenser fouling factor 0.000044 m² K/W

OPTIONS AND ACCESSORIES	Option	Accessory
Compressor suction valve	x	
Evaporator with one pass less	x	
Evaporator maximum water-side operating pressure of 21 bar	x	
Reversed evaporator water inlet/outlet	x	
Condenser with one pass less	x	
Condenser maximum water-side operating pressure of 21 bar	x	
Condenser 90-10 Copper-Nickel tubes	x	
Reversed condenser water inlet/outlet	x	
RS485 communications interface with open protocol		x
Compressor soft start (30HXC 200-375) - electronic starter	x	
Electrical protection to IP44C	x	
Brine unit for leaving brine < +4°C to > -6°C	x	
High condensing temperature unit and non-reversible heat pump	x	
Tropicalized control box	x	
Disassembled unit	x	
Evaporator water pump starter	x	
Condenser water pump starter	x	
Three-way valve control, condenser	x	
Heat exchanger water connection kit		x



Carrier actively participates in the Eurovent certification programmes. Eurovent is an independent organisation that tests products and verifies the conformance between test results and data published by the manufacturer. Eurovent certification is an important guarantee for consultants and installers. They can be sure that a product with Eurovent certification will operate in conformance with the specifications and satisfy customer requirements. Carrier chillers and heat pumps come with Eurovent certification.

