

Physical data																		
30HXC		080	090	100	110	120	130	140	155	175	190	200	230	260	285	310	345	375
Nominal cooling capacity*	kW	286	312	348	374	412	449	509	541	598	651	699	812	897	985	1106	1204	1300
Operating weight	kg	2274	2279	2302	2343	2615	2617	2702	2712	3083	3179	3873	4602	4656	4776	5477	5553	5721
Refrigerant charge**		HFC-1	34a															
Compressors		Semi-	hermet	ic, twin	-screw													
Quantity - Circuit A		1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Quantity - Circuit B		1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
Capacity control		PRO-I	PRO-DIALOG Plus control															
No. of control steps		6	6	6	6	6	6	6	6	6	6	8	8	8	8	10	10	10
Evaporator		Shell a	and tub	e with	internal	ly finne	d copp	er tube	s									
Water connections			Flat flange factory-supplied, to be welded on site															
Inlet/outlet	in	4	4	4	5	5	5	5	5	5	5	6	6	6	6	8	8	8
												-	-					
Condenser		Shell	Shell and tube with internally finned copper tubes															
Water connections			Flat flange factory-supplied, to be welded on site															
Inlet/outlet	in	5	5	5	5	5	5	5	5	6	6	6	8	8	8	8	8	8

Standard Eurovent conditions: Evaporator entering/leaving water temperature 12°C and 7°C. Condenser entering/leaving water temperature 30°C/35°C. Evaporator and condenser fouling factor = $0.00044 \text{ m}^2 \text{ K/W}$. Not applicable to high condensing temperature units - please refer to electronic selection catalogue.

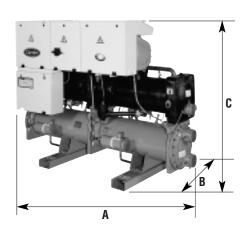
Electrical data																		
30HXC		080	090	100	110	120	130	140	155	175	190	200	230	260	285	310	345	375
Power circuit Nominal power supply (Un)*	V-ph-Hz	400-3	3-50															
Control circuit supply		The c	control	circuit i	s suppl	ied via	the fact	ory-ins	talled t	ransfor	mer							
Nominal power input*	kW	57	62	67	76	80	89	102	112	121	129	140	164	192	195	221	250	263
Nominal current drawn *	А	101	115	127	143	149	168	190	207	226	234	255	294	337	354	399	448	477
Maximum starting current, standard unit*** Circuit A** Circuit B**	A A A	181 - -	206 - -	223 - -	249 - -	267 - -	298 - -	333 - -	355 - -	382 - -	442 - -	841 712 605	978 822 715	1027 871 715	1200 1028 856	1129 844 844	1184 871 871	1373 1028 1028

- Standard Eurovent conditions: Evaporator entering/leaving water temperature 12°C and 7°C. Condenser entering/leaving water temperature 30°C/35°C.
- Maximum unit operating current at maximum unit power input.

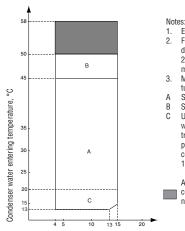
 Maximum instantaneous starting current (maximum operating current of the smallest compressor(s) + locked rotor current or reduced starting current of the largest compressor)

Dimensions/clearances, mm

30HXC	Α	В	C	
080-090-100 110 120-130-140-155 175-190 200 230-260-285 310-345-375	2558 2565 3275 3275 3903 3924 4533	980 980 980 980 1015 1015	1800 1850 1816 1940 1980 2060 2112	



Unit operating range at full load

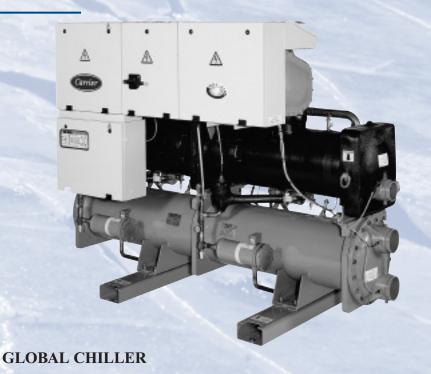


Evaporator leaving water temperature, °C

- Evaporator and condenser $\Delta T = 5 \text{ K}$
- For start-up at full load with a con-denser water entering temperature below 20°C, a three-way valve must be used to maintain the correct condensing temperature
- Maximum condenser water leaving tempera-ture 50°C (at full load)
- Standard unit operating at full load.
 Standard unit operating at reduced load.
- Units operating with head pressure control with analogue water control valve. For transient operating modes (start-up and part load) the unit can operate down to a condenser entering water temperature of 13°C.

Additional operating range for high condensing temperature units and non-reversible heat pumps.





FEATURES

- Seventeen sizes with nominal cooling capacities from 286 to 1300 kW.
- PRO-DIALOG Plus control to optimise the efficiency of the refrigerant circuit.
- Ozone-friendly HFC-134a refrigerant, proven, non-toxic, non-flammable.
- Equipped with screw compressors for extremely quiet operation and low vibration levels.
- Control is fully automatic and includes autodiagnostics.
- Two independent refrigerant circuits.
- Multiple compressor concept.
- Series star/delta starter, limiting the start-up current on (30HXC 080-190).
- Easy installation compact design, fits through a standard door opening. Supplied as a complete package for easy installation. No extra controls, timers, starters or other items to install.
- Single power point (30HXC 080 to 190), and one power point per circuit (30HXC 200 to 375).
- Simple to service: mechanically cleanable evaporator and condenser, twinscrew compressors with minimum routine service.
- Very low temperature option available for part of the range, allows evaporator leaving water temperatures down to -10°C.

PRODUALOG



PRO-DIALOG Plus operator interface



Carrier twin-screw compressor

OPTIONS/ACCESSORIES

- Compressor suction valve (option)
- Evaporator or condenser with one pass less (option)
- Evaporator or condenser maximum waterside operating pressure of 21 bar (option)
- RS485 communications interface with JBus, BacNet, LON protocol (accessory)
- Electronic compressor starter (30HXC 200-375) (option)
- Electrical protection to IP44C (option)
- High condensing temperature unit and nonreversible heat pump (option)
- Reversed evaporator or condenser water inlet/outlet (option)
- Tropicalized control box (option)
- Disassembled unit (option)
- Evaporator or condenser water pump starter (option)
- Three-way control valve, condensor (option)
- Heat exchanger water connection kit (accessory)
- Low evaporator leaving water temperatures $< +4^{\circ}\text{C}$ to $> -6^{\circ}\text{C}$ (option).
- Very low evaporator leaving water temperatures < 0°C to > -10°C (option).