4 - PHYSICAL AND ELECTRICAL DATA FOR 30HXC UNITS

4.1 - Physical data 30HXC

30HXC		080	090	100	110	120	130	140	155	175	190	200	230	260	285	310	345	375
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**	kg	HFC-134a																
Circuit A**		33	33	32	31	49	51	48	51	54	56	92	115	117	117	109	104	119
Circuit B**		34	34	30	35	52	47	48	50	50	59	54	63	75	75	106	102	137
Oil***		Polyolester oil CARRIER SPEC. PP 47-32																
Circuit A/B	l	17/17	17/17	17/17	17/17	17/17	17/17	17/17	17/17	17/17	17/17	30/17	30/17	30/17	30/17	34/34	34/34	34/34
Compressors†		Semi-hermetic, twin-screw																
Size - Circuit A†		39	46	46	56	56	66	80	80	80	80+	66/56	80/56	80/80	80+/80+	80/66	80/80	80+/8(
Size - Circuit B†		39	39	46	46	56	56	56	66	80	80+	66	80	80	80+	80/66	80/80	80+/8(
Capacity control		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
Minimum step capacity	%	19	19	21	19	21	19	17	19	21	21	14	14	14	14	10	10	10
Evaporator		Shell and tube with internally finned copper tubes																
Net water volume	l	50	50	58	69	65	65	75	75	88	88	126	155	170	170	191	208	208
Water connections		Victaulic connections																
Inlet/outlet	in	4	4	4	5	5	5	5	5	5	5	6	6	6	6	8	8	8
Drain and vent (NPT)	in	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Max. water side operating pressure	kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Condenser		Shell and tube with internally finned copper tubes																
Net water volume	l	48	48	48	48	78	78	90	90	108	108	141	190	190	190	255	255	255
Water connections		Victaulic connections																
Inlet/outlet	in	5	5	5	5	5	5	5	5	6	6	6	8	8	8	8	8	8
Drain and vent (NPT)	in	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Max. water side operating pressure	kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

* Standard Eurovent conditions: Evaporator entering/leaving water temperature 12°C and 7°C. Condenser entering/leaving water temperature 30°C/35°C. Evaporator and conden fouling factor = 0.000044 m² K/W.

** The weights shown are guidelines only. For the unit refrigerant charge please refer to the unit nameplate.

*** For options 150 and 150A the units are supplied with an additional charge of 3 litres per compressor.

† Nominal size per compressor. The compressor size is the same as its nominal cooling capacity in tons of refrigeration (1 ton = 3.517 kW).

4.2 - Electrical data 30HXC

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	400-3-50																
Voltage range	V	360-440																
Control circuit supply		The control circuit is supplied via the factory-installed transformer																
Nominal power input*	kW	53	62	67	76	80	89	102	112	121	129	140	164	192	195	221	250	263
Nominal current drawn*	A	101	115	127	143	149	168	190	207	226	234	255	294	337	354	399	448	477
Max. power input**	kW	87	97	108	119	131	144	161	175	192	212	223	257	288	318	350	384	424
Circuit A	kW	-	-	-	-	-	-	-	-	-	-	144	161	192	212	175	192	212
Circuit B	kW	-	-	-	-	-	-	-	-	-	-	79	96	96	106	175	192	212
Cosine phi, unit at full load		0.88	0.88	0.88	0.88	0.89	0.88	0.88	0.89	0.89	0.89	0.88	0.89	0.89	0.89	0.89	0.89	0.89
Max. current drawn (Un - 10%)***	A	158	176	195	215	235	259	289	314	344	379	401	461	517	568	628	688	758
Circuit A****	A											250	289	344	379	314	344	379