



Freecooling chillers EEF series, screw compressors R134a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans

BIG (Big Chillers)	Model	210	250	300	330	380	430	510	580	650	700	750	800	920	1000	1100	1210	1350
NOMINAL COOLING CAPACITY (1)	kW	223	252	311	335	399	444	534	609	670	723	758	824	946	1035	1124	1277	1410
TOTAL COMPRESSORS NOMINAL ABSORBED POWER (1)	kW	70,6	75,0	97,6	102,4	114,0	134,8	168,8	189,0	195,0	214,0	231,4	232,2	263,6	290,8	314,4	379,8	452,6
COP (1)	kW/kW	3,16	3,36	3,19	3,27	3,50	3,29	3,16	3,22	3,44	3,38	3,28	3,55	3,59	3,56	3,58	3,36	3,12
EER (1)	kW/kW	2,71	2,91	2,85	2,94	3,08	2,95	2,90	2,92	3,07	3,05	2,98	3,18	3,21	3,22	3,22	3,05	2,85
ESEER		4,08	4,25	4,28	4,25	4,25	4,37	4,23	4,26	4,35	4,25	4,27	4,47	4,45	4,30	4,38	4,30	4,29
IPLV		4,69	4,80	4,82	4,80	4,82	5,00	4,82	4,86	4,86	4,82	4,87	5,13	5,07	4,86	5,00	4,86	4,84
AIR TEMPERATURE 100% FREE COOLING (2)	°C	0,0	-1,0	-3,0	-4,0	-3,0	-4,2	-6,6	-6,4	-5,0	-5,6	-6,4	-5,2	-5,0	-6,0	-5,6	-5,6	-5,5
COMPRESSORS	nr.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
REFRIGERATING CIRCUITS	nr.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PARTITION STEPS	%	0-33-66-100		0-25-50-75-100														
HYDRAULIC SECTION																		
NOMINAL WATER FLOW (1)	m³/h	38,4	43,4	53,6	57,7	68,7	76,5	92,0	104,9	115,4	124,5	130,6	141,9	163,0	178,3	193,6	220,0	242,9
EVAPORATOR PRESSURE DROP (3)	kPa	43	50	50	54	67	71	53	71	77	82	86	69	75	80	77	79	86
FREE COOLING PRESSURE DROP (4)	kPa	96	114	127	138	142	155	121	128	141	149	156	148	153	164	165	184	231
AVAILABLE PRESSURE (5)	mca	26,0	35,8	33,4	32,9	32,4	38,3	35,8	36,3	34,8	41,2	40,2	39,2	37,3	35,8	35,3	41,2	38,3
PUMP MOTOR NOMINAL POWER (5)	kW	7,5	7,5	7,5	11,0	11,0	15,0	15,0	18,5	18,5	22,0	22,0	30,0	30,0	30,0	30,0	37,0	45,0
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	125	125	125	125	125	150	150	150	150	150	200	200	200	200	200	200	200
TANK VOLUME (5)	dm3	600	600	600	600	600	600	600	600	800	800	800	800	800	800	800	1000	1000
FAN SECTION (AXIAL)																		
TOTAL AIR FLOW	m³/h	108000	102000	102000	102000	136000	134000	134000	170000	196000	216000	212000	236000	272000	272000	315000	350000	396000
FANS	nr.	6	6	6	6	8	8	8	10	12	12	12	14	16	16	18	20	22
FANS ABSORBED POWER	KW	11,64	11,64	11,64	11,64	15,52	15,52	15,52	19,40	23,28	23,28	23,28	27,16	31,04	31,04	34,92	38,80	42,68
FANS ABSORBED CURRENT	A	23,40	23,40	23,40	23,40	31,20	31,20	31,20	39,00	46,80	46,80	46,80	54,60	62,40	62,40	70,20	78,00	85,80
ELECTRIC FEED																		
MAXIMUM ASSORBED CURRENT PER COMPRESSOR (F.L.A.)	A	115	122	146	163	183	209	254	294	319	319	358	374	430	473	508	589	580
MAXIMUM PEAK CURRENT PER COMPRESSOR (PW) (L.R.A.)	A	239-450	239-450	329-530	423-650	497-765	640-985	646-950	915-1345	996-1465	996-1465	996-1465	527-1580	693-2080	777-2330	827-2480	915-2745	935-2805
MOTOR CONNECTION (PW = part winding; Y-D = star-delta)		PW	PW	PW	PW	PW	PW	PW	PW	PW	PW	PW	Y-D	Y-D	Y-D	Y-D	Y-D	Y-D
ELECTRIC FEED	V/Ph/Hz	400/3/50																
NOISE DATA																		
SOUND PRESSURE (6)	dB(A)	63,1	63,4	63,7	64,2	64,6	65,4	67,9	69,9	70,1	71,0	71,3	71,6	71,8	72,3	73,1	73,5	74,7
DIMENSIONS AND WEIGHT																		
LENGTH	mm	4050	4050	4050	4050	5000	5000	5000	5950	6900	6900	6900	7850	8800	8800	9750	10700	11650
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY	kg	3700	3800	4000	4100	4900	5000	5200	6100	6800	7000	7100	7900	8650	8750	9600	10500	11500
WEIGHT OPERATIVE	kg	4500	4600	4700	4800	5800	6000	6200	6950	7700	7900	8000	8900	9950	10100	10700	11600	12700

The manufacturer reserves the right to modify specifications without notice.

updated on 03/02/2015

Data referred to:

(1) 100% of Load - Inlet/Outlet water temperature = +12/+7 °C - Condenser air temperature = +35°C; fouling factor = 0.000043 m²K/W.

(2) Inlet/Outlet water temperature = +12/+7 °C.

(3) Evaporator + valve + piping pressure drop (no free cooling).

(4) Free cooling + evaporator + valves + piping pressure drop.

(5) With options NT.WP (no tank - water pump) or T.WP (tank - water pump).

(6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface