

5 LIMITATIONS

Model				Steam	Hot water	
Steam/ Hot Water	Working temperature	min.	°C	105	80	
		normal PED	°C	135	120	
		max. PED	°C	167	128	
	Working pressure	- before control valve	max.	bar g	1,5	10
		- before generator	max.	bar g	0,95	21
			min.	bar g	0,2	-
Permitted tolerance	temperature		°C	-	± 1,5 (1)	
	pressure		bar	± 0,07 (1)	-	
Max. permitted design temperature	S.E.P. (5)		°C	-	110	
	normal PED		°C	135	-	
	max. PED		°C	169	130	
Max. permitted design pressure	normal S.E.P. (5)		PN	-	10	
	max. S.E.P. (5)		PN	-	21	
	normal PED		PN	1,5	10	
	max. PED		PN	2,5	21	
Chilled Water	Entering temperature	max.	°C	23,8 (3)	23,8 (3)	
	Leaving temperature	min.	°C	4,5	4,5	
		max.	°C	18,0	18,0	
	Permitted tolerance	flow		%	± 10	± 10
Design pressure	standard		PN	10	10	
Cooling Water	Entering temperature	min.	°C	7,0 (2)	24	
		max.	°C	35	35	
	Leaving temperature	max.	°C	45 (4)	45 (4)	
	Permitted tolerance	flow		%	± 10	± 10
	Design pressure	standard		PN	10	10
Plant Room Temperature	min.		°C	5	5	
	max.		°C	40	40	
Ventilation	min.		m ³ /h	Refer to table 4.6		
Foundation Load	min.		kg	Refer to table 4.1		

- (1) Greater tolerance affects control quality.
- (2) When the cooling water entering temperature is below 20 °C, the chilling capacity decreases proportionally with decreasing cooling water entering temperature to around 45%. For constant chilling capacity under all conditions (eg industrial) a bypass control for maintaining cooling water entering temperature must be used.
- (3) Up to 30 °C is permissible for a short time during start-up.
- (4) Up to 50°C is permitted if calculation is done by the Global Product Group. No operation possible with two operating points.
- (5) S.E.P. = Sound Engineering Practice = Approval by the manufacturer.

Table 5.1 Limitations of Use