

i-CHILLER COMPACT

1 to 4 kW | 0°C to 30°C

		iC03C	iC05C	iC08C	iC10C
Cooling Capacity 50Hz/60Hz (1)	kW	1.72 / 1.92	2.64 / -	3.42 / -	4.53 / -
Total absorbed power 50Hz/60Hz (1)	kW	0.504 / 0.492	0.835 / -	0.981 / -	1.19 / -
EER 50Hz/60Hz (1)	-	3.41 / 3.90	3.16 / -	3.42 / -	3.79 / -
Cooling Capacity 50Hz/60Hz (2)	kW	1.17 / 1.33	1.74 / -	2.29 / -	3.03 / -
Total absorbed power 50Hz/60Hz (2)	kW	0.575 / 0.554	0.963 / -	1.15 / -	1.39 / -
EER 50Hz/60Hz (2)	-	2.04 / 2.40	1.81 / -	1.99 / -	2.18 / -
Min / max ambient temps. (3)	°C	+5/+45	+5/+45	+5/+45	+5/+45
Min / max fluid supply temps.	°C	0/+30	0/+30	0/+30	0/+30
Compressor					
Cooling circuits	no.1	1			
Compressors per circuit	no.1	1			
Capacity control	%	0-100			
SEPR HT (50Hz operation)	-	4.51	4.74	4.80	4.86
Electrical power supply (4)					
Power	V/Ph/Hz	230±10%/1-PE/50-60	230±10%/1-PE/50		
Auxiliary	V/Ph/Hz	230/1/50			
Max. absorbed power (50Hz / 60Hz)	kW	0.9 / 1.0	1.6	1.9	2.3
Max. absorbed current (50Hz / 60Hz)	A	4.1 / 4.8	7.5	8.6	10.1
Starting current	A	15.8 / 16.3	20.3	22	27.3
Fan					
Fans number	No.	1			
Total airflow	m³/h	700	1,100	1,450	1,400
Nominal power (per fan)	kW	0.09			
Hydraulic group					
P3	Water flow rate (5)	m³/h	0.1/0.5	0.2/1.5	
	Available pump head pressure (50Hz operation) (6)	barg	3.6/1.3	3.6/1.4	
	Available pump head pressure (60Hz operation) (6)	barg	4.5/1.6	-	
	Nominal absorbed power	kW	0.18	0.37	
P5	Water flow rate (5)	m³/h	-	0.2 / 1.4	
	Available pump head pressure (6)	barg	-	5.0 / 0.3	
	Nominal absorbed power	kW	-	0.6	
Tank volume	l	15		22	
Water connections	BSP	½"			
Sound levels (7)					
Sound power (50Hz operation)	dB(A)	74.0 / 75.0		75.0	
Sound power (60Hz operation)	dB(A)	46.0 / 47.0		47.0	
Dimensions & installed weight					
Length	mm	660			
Width	mm	486			
Height	mm	623		876	
Weight	kg	68	71	95	98

(1) Evaporator outlet / inlet temperatures +15°C/+20°C, external ambient temperature +25°C, total absorbed power includes compressor, fan & pump

(2) Evaporator outlet / inlet temperatures +7°C/+12°C, external ambient temperature +35°C, total absorbed power includes compressor, fan & pump

(3) Standard unit configuration operating with evaporator outlet / inlet temperatures +15°C/+20°C

(4) Protection class IP33

(5) Minimum / maximum water flow rates achievable by pump

(6) Available head pressure at outlet of unit at the minimum / maximum water flow rates

(7) Sound power determined on basis of measurements taken in accordance with ISO 3744. Sound pressure at 10m average value obtained in free field on a reflective surface at 10m distance from the side of the condenser coils & at a height of 1.6m from the unit support base. Values with tolerance ± 2dB. The sound levels refer to unit operation under full load in nominal conditions.

Unless otherwise specified, the above data refers to unit configuration with standard axial fans & fitted with standard P3 pump, operating at 50Hz for dual frequency models. Data declared according to UNI EN 14511-2013.

SEPR HT: Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products and high temperature process chillers.