



TRANE®

Information requirements for comfort chillers							
Model(s):		CGAM 140 HE CAP					
Outdoor side heat exchanger of chiller:		air					
Indoor side heat exchanger of chiller:		water					
Type:		compressor driven vapour compression					
Driver of compressor:		electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	399.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	177.5	%
Declared cooling capacity for part load at given outdoor temperatures T_j				Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = +35\text{ °C}$	P_{dc}	399.0	kW	$T_j = +35\text{ °C}$	EER_d	3.0	kW/kW
$T_j = +30\text{ °C}$	P_{dc}	294.0	kW	$T_j = +30\text{ °C}$	EER_d	4.2	kW/kW
$T_j = +25\text{ °C}$	P_{dc}	189.0	kW	$T_j = +25\text{ °C}$	EER_d	5.2	kW/kW
$T_j = +20\text{ °C}$	P_{dc}	84.0	kW	$T_j = +20\text{ °C}$	EER_d	5.5	kW/kW
Degradation co-efficient for chillers (*)	C_{dc}	0.9	—				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.000	kW	Crankcase heater mode	P_{CK}	0.589	kW
Thermostat-off mode	P_{TO}	1.403	kW	Standby mode	P_{SB}	0.589	kW
Other items							
Capacity control	Variable			For air-to-water comfort chillers: air flow rate, outdoor measured	—	105364.8	m ³ /h
Sound power level, outdoor	L_{WA}	84.7	dB(A)	For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	—	0	m ³ /h
GWP of the refrigerant		2,088	kg CO ₂ eq (100 years)				
Standard rating conditions used:		0					
Contact details		TRANE 88190 Golbey - France					
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9							