



TRANE®

Information requirements for comfort chillers

Model(s):	CGAX 045 HELN
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	$P_{rated,c}$	129.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	175.6	%
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}	129.3	kW	$T_j = +35\text{ °C}$	EER_d	3.1	kW/kW
$T_j = +30\text{ °C}$	P_{dc}	95.3	kW	$T_j = +30\text{ °C}$	EER_d	4.2	kW/kW
$T_j = +25\text{ °C}$	P_{dc}	61.3	kW	$T_j = +25\text{ °C}$	EER_d	5.2	kW/kW
$T_j = +20\text{ °C}$	P_{dc}	27.2	kW	$T_j = +20\text{ °C}$	EER_d	5.7	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}	0.308	kW
Thermostat-off mode	P_{TO}	0.814	kW	Standby mode	P_{SB}	0.038	kW
Other items							
Capacity control	Variable			For air-to-water comfort chillers: air flow rate, outdoor measured	—	25179.782	m ³ /h
Sound power level, outdoor	L_{WA}	81.6	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		-	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							