

**Information requirements for air-to-air air heat pumps**

Model(s):	<b>IH140</b>
Outdoor side heat exchanger:	air
Indoor side heat exchanger:	air
Supplementary heater:	no
Type:	compressor driven vapour compression
Driver of compressor:	electric motor

Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	137.4	kW
Declared cooling capacity for part load at given outdoor temperatures $T_j$			
$T_j = -7\text{ °C}$	$P_{dh}$	82.5	kW
$T_j = +2\text{ °C}$	$P_{dh}$	54.0	kW
$T_j = +7\text{ °C}$	$P_{dh}$	34.7	kW
$T_j = +12\text{ °C}$	$P_{dh}$	15.4	kW
$T_{biv} = -6\text{ °C}$	$P_{dh}$	84.9	kW
$T_{ol} = -10\text{ °C}$	$P_{dh}$	76.1	kW
Degradation co-efficient (**)	$C_{dc}$	0.25	—
Power consumption in modes other than 'active mode'			
Off mode	$P_{OFF}$	0.000	kW
Thermostat-off mode	$P_{TO}$	0.360	kW
Other items			
Capacity control	Staged		
Sound power level, outdoor	$L_{WA}$		dB(A)
GWP of the refrigerant		2088	kg CO2 eq (100 years)

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_{s,h}$	140.6	%
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j = -7\text{ °C}$	$COP_d$	2.48	kW/kW
$T_j = +2\text{ °C}$	$COP_d$	3.80	kW/kW
$T_j = +7\text{ °C}$	$COP_d$	4.23	kW/kW
$T_j = +12\text{ °C}$	$COP_d$	3.99	kW/kW
$T_{biv} = -6\text{ °C}$	$COP_d$	2.63	kW/kW
$T_{ol} = -10\text{ °C}$	$COP_d$	2.35	kW/kW
Crankcase heater mode			
	$P_{CK}$	0.360	kW
Standby mode			
	$P_{SB}$	0.400	kW
air flow rate, outdoor measured			
	—	52032	m <sup>3</sup> /h

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(\*) If  $C_{dc}$  is not determined by measurement then the default degradation coefficient of air-conditioners shall be 0,25.