

**Information requirements
(air-to-air air conditioners)**

Model(s): ASGE-42BI2,ASD-42BI2							
Outdoor side heat exchanger of air conditioner	air						
Indoor side heat exchanger of air conditioner	air						
Type	compressor driven vapour compression						
If applicable: driver of compressor	electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12,1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	274,4	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratio for part load at given outdoor temperatures T_j			
$T_j = + 35 \text{ °C}$	P_{dc}	12,33	kW	$T_j = + 35 \text{ °C}$	EER_d	3,24	-
$T_j = + 30 \text{ °C}$	P_{dc}	8,79	kW	$T_j = + 30 \text{ °C}$	EER_d	4,72	-
$T_j = + 25 \text{ °C}$	P_{dc}	5,56	kW	$T_j = + 25 \text{ °C}$	EER_d	7,82	-
$T_j = + 20 \text{ °C}$	P_{dc}	2,89	kW	$T_j = + 20 \text{ °C}$	EER_d	14,46	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0,25	—				-
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0,008	kW	Crankcase heater mode	P_{CK}	0,000	kW
Thermostat-off mode	P_{TO}	0,002	kW	Standby mode	P_{SB}	0,008	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5200	m^3/h
Sound power level, indoor/outdoor	L_{WA}	66/72	dB				
If engine driven: Emissions of nitrogen oxides	$NOx(**)$	-	mg/kWh fuel input GCV				
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
Contact details: Tel: +420 541 590 140 Fax: +420 541 590 124 E-mail: info@sinclair-solutions.com				Name of manufacturer: SINCLAIR CORPORATION Ltd., 16 Great Queen St., London, UK			
<p>(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25. (**) From 26 September 2018. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.</p>							

**Information requirements
(heat pump)**

Model(s): ASGE-42BI2,ASD-42BI2							
Outdoor side heat exchanger of heat pump	air						
Indoor side heat exchanger of heat pump	air						
Indication if the heater is equipped with a supplementary heater	no						
If applicable: driver of compressor	electric motor						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heating capacity	$P_{rated,h}$	13,5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	170,0	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance for part load at given outdoor temperatures T_j			
$T_j = -7\text{ °C}$	P_{dh}	7,64	kW	$T_j = -7\text{ °C}$	COP_d	2,68	-
$T_j = +2\text{ °C}$	P_{dh}	4,14	kW	$T_j = +2\text{ °C}$	COP_d	4,28	-
$T_j = +7\text{ °C}$	P_{dh}	2,81	kW	$T_j = +7\text{ °C}$	COP_d	5,78	-
$T_j = +12\text{ °C}$	P_{dh}	2,96	kW	$T_j = +12\text{ °C}$	COP_d	7,18	-
T_{biv} = bivalent temperature	P_{dh}	7,64	kW	T_{biv} = bivalent temperature	COP_d	2,68	-
T_{OL} = operation limit	P_{dh}	6,24	kW	T_{OL} = operation limit	COP_d	2,70	-
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	NA	kW	$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COP_d	NA	-
Bivalent temperature	T_{biv}	-7.00	°C	Operation limit temperature	T_{ol}	-10.00	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0,25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0,008	kW	Back-up heating capacity (*)	elbu	2,260	kW
Thermostat-off mode	P_{TO}	0,017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0,000	kW	Standby mode	P_{SB}	0,008	kW
Other items							
Capacity control	variable			air flow rate, outdoor measured	—	5200	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	66/73	dB				
Emissions of nitrogen oxides (if applicable)	$NOx(***)$	-	mg/kWh input GCV	Rated brine or water flow rate, outdoor side heat exchanger	—	-	m^3/h
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
Contact details: Tel: +420 541 590 140 Fax: +420 541 590 124 E-mail: info@sinclair-solutions.com				Name of manufacturer: SINCLAIR CORPORATION Ltd., 16 Great Queen St., London, UK			
(*) (**) If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							