

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

Model(s): ASGE-42BI2,ASF-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	$\eta_{s,c}$	255,7	%
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 $T_j$			
$T_j = + 35 \text{ °C}$	$P_{dc}$	12,20	kW	$T_j = + 35 \text{ °C}$	$EER_d$	3,10	-
$T_j = + 30 \text{ °C}$	$P_{dc}$	8,77	kW	$T_j = + 30 \text{ °C}$	$EER_d$	4,71	-
$T_j = + 25 \text{ °C}$	$P_{dc}$	5,43	kW	$T_j = + 25 \text{ °C}$	$EER_d$	6,89	-
$T_j = + 20 \text{ °C}$	$P_{dc}$	2,71	kW	$T_j = + 20 \text{ °C}$	$EER_d$	12,69	-
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	$P_{TO}$	0,000	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	$L_{WA}$	57/72	dB				
If engine driven: Emissions of nitrogen oxides	$NOx(**)$	-	mg/kWh fuel input GCV				
GWP of the refrigerant	675		kg CO <sub>2</sub> 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 <math>C_{dc}</math> 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,ASF-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	$\eta_{s,h}$	164,9	%
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 $T_j$			
$T_j = -7\text{ °C}$	$P_{dh}$	7,76	kW	$T_j = -7\text{ °C}$	$COP_d$	2,93	-
$T_j = +2\text{ °C}$	$P_{dh}$	4,53	kW	$T_j = +2\text{ °C}$	$COP_d$	3,99	-
$T_j = +7\text{ °C}$	$P_{dh}$	2,95	kW	$T_j = +7\text{ °C}$	$COP_d$	5,45	-
$T_j = +12\text{ °C}$	$P_{dh}$	3,32	kW	$T_j = +12\text{ °C}$	$COP_d$	7,22	-
$T_{biv}$ = bivalent temperature	$P_{dh}$	7,76	kW	$T_{biv}$ = bivalent temperature	$COP_d$	2,93	-
$T_{OL}$ = operation limit	$P_{dh}$	7,22	kW	$T_{OL}$ = operation limit	$COP_d$	2,63	-
$T_j = -15\text{ °C}$ (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 (*)	$e_{lbu}$	1,279	kW
Thermostat-off mode	$P_{TO}$	0,011	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	$L_{WA}$	57/73	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 <sub>2</sub> 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.							