INFORMATION SHEET FOR AIR CONDITIONERS, EXCEPT DOUBLE DUCTS AND SINGLE DUCTS(5)

As by Comission Communication in the framework of ecodesign requirements for air conditioners and comfort fans (EU Regulation no. 206/2012) and of energy labelling of air conditioners - (EU Regulation no. 626/2011)

Appendix I: information according to clause 3 of NO 206/2012 ANNEX Ⅰ, for air conditioners，except single duct and double duct air conditioners

MODEL : AFSI ECO 120HL / AFSI ECO 120SH3

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	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	246.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratiofor part load at given outdoor temperatures T_j			
T_j = + 35 °C	Pdc	12.52	kW	T_j = + 35 °C	EER_d	3.73	-
T_j = + 30 °C	Pdc	8.99	kW	T_j = + 30 °C	EER_d	4.81	-
T_j = + 25 °C	Pdc	5.69	kW	T_j = + 25 °C	EER_d	7.17	-
T_j = + 20 °C	Pdc	3.76	kW	T_j = + 20 °C	EER_d	9.35	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—				-
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.003	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.013	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5900	m^3/h
Sound power level, indoor/outdoor	L_{WA}	68/71	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)				
				Name of manufacturer: Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (Brescia) ITALY			

(*) 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.

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	$\eta_{s,h}$	159.0	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance for part load at given outdoor temperatures T_j			
T_j = – 7 °C	Pdh	8.18	kW	T_j = – 7 °C	COP_d	2.74	-
T_j = + 2 °C	Pdh	4.85	kW	T_j = + 2 °C	COP_d	4.01	-
T_j = + 7 °C	Pdh	3.20	kW	T_j = + 7 °C	COP_d	5.13	-
T_j = + 12 °C	Pdh	3.00	kW	T_j = + 12 °C	COP_d	6.06	-
T_{biv} = bivalent temperature	Pdh	8.18	kW	T_{biv} = bivalent temperature	COP_d	2.74	-
T_{OL} = operation limit	Pdh	7.41	kW	T_{OL} = operation limit	COP_d	2.53	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	NA	kW	Tj = – 15 °C (if TOL < – 20 °C)	COP_d	NA	-
Bivalent temperature	T_{biv}	-7	°C	Operation limit temperature	T_{ol}	-10	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0.25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.005	kW	Back-up heating capacity (*)	elbu	1.8	kW
Thermostat-off mode	P_{TO}	0.018	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.018	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5900	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	68/75	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)				
				Name of manufacturer: Argoclima Spa - Via Alfeno Varo 35 25020 Alfianello (Brescia) ITALY			

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(**) If Cdh 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.

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	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	201.0	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance for part load at given outdoor temperatures T_j			
T_j = – 7 °C	Pdh	—	kW	T_j = – 7 °C	COP_d	—	-
T_j = + 2 °C	Pdh	11.93	kW	T_j = + 2 °C	COP_d	2.59	-
T_j = + 7 °C	Pdh	7.29	kW	T_j = + 7 °C	COP_d	4.71	-
T_j = + 12 °C	Pdh	3.00	kW	T_j = + 12 °C	COP_d	6.06	-
T_{biv} = bivalent temperature	Pdh	11.93	kW	T_{biv} = bivalent temperature	COP_d	2.59	-
T_{OL} = operation limit	Pdh	11.93	kW	T_{OL} = operation limit	COP_d	2.59	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	NA	kW	Tj = – 15 °C (if TOL < – 20 °C)	COP_d	NA	-
Bivalent temperature	T_{biv}	2.00	°C	Operation limit temperature	T_{ol}	2.00	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0.25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.005	kW	Back-up heating capacity (*)	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.018	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.018	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5900	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	68/75	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)				
				Name of manufacturer: Argoclima Spa - Via Alfeno Varo, 35 25020 Alfianello (Brescia) ITALY			

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(**) If Cdh 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.