



## INFORMATION REQUIREMENTS FOR AIR-TO-AIR AIR CONDITIONERS

As per Table 11 of COMMISSION REGULATION (EU) 2016/2281 of 30 November 2016 which implements Directive 2009/125 / EC of the European Parliament and of the Council, relating to the establishment of a framework for the development of specifications for ecodesign of energy related products, as regards the ecodesign requirements of air heating products, cooling products, high temperature process chillers and fan coil units

**MODEL : ABDGI 30 HW / ABDGI 30 SH3**

Outdoor 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	Prated,c	30,0	kW	Seasonal space cooling energy efficiency	ηs,c	185,2	%

**Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°C/19°C (dry/wet bulb)**

Tj = 35°C	Pdc	30,14	kW
Tj = 30°C	Pdc	22,41	kW
Tj = 25°C	Pdc	14,29	kW
Tj = 20°C	Pdc	7,01	kW

**Declared energy efficiency ratio for part load at given outdoor temperatures Tj**

Tj = 35°C	EERd	2,76	-
Tj = 30°C	EERd	3,86	-
Tj = 25°C	EERd	5,16	-
Tj = 20°C	EERd	6,24	-

Degradation co-efficient for air conditioners (*)	Cdc	0,25	-				
---	-----	------	---	--	--	--	--

**Power consumption in modes other than "active mode"**

Off mode	P <sub>OFF</sub>	0,003	kW	Crankcase heater mode	P <sub>CK</sub>	0,000	kW
Thermostat-off mode	P <sub>TO</sub>	0,000	kW	Standby mode	P <sub>SB</sub>	0,003	kW

**Other items**

Capacity control		variable		For air-to-air conditioner: air flow rate, outdoor measured	L <sub>WA</sub>	11000	m <sup>3</sup> /h
Sound power level, indoor/outdoor	L <sub>WA</sub>	74/82	dB(A)				
If engine driven: Emissions of nitrogen oxides	NOX(**)	-	mg/kWh fuel input GVC				
GWP of the refrigerant	GWP	2088	Kg CO <sub>2</sub> eq (100 years)				

Contact details:

**Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (BS) - Italy**

(\*) If Cdc 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.



## INFORMATION REQUIREMENTS FOR AIR-TO-AIR AIR CONDITIONERS

As per Table 14 of COMMISSION REGULATION (EU) 2016/2281 of 30 November 2016 which implements Directive 2009/125 / EC of the European Parliament and of the Council, relating to the establishment of a framework for the development of specifications for ecodesign of energy related products, as regards the ecodesign requirements of air heating products, cooling products, high temperature process chillers and fan coil units,

**MODEL : ABDGI 30 HW / ABDGI 30 SH3**

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Indication of 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	Prated,h	33,0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	133,2	%

**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 Tj**

Tj = -7°C	Pdh	17,52	kW	Tj = -7°C	COPd	1,90	
Tj = 2°C	Pdh	11,11	kW	Tj = 2°C	COPd	3,29	
Tj = 7°C	Pdh	6,78	kW	Tj = 7°C	COPd	5,04	
Tj = 12°C	Pdh	8,68	kW	Tj = 12°C	COPd	5,65	
Tbiv = bivalent temperature	Pdh	17,52	kW	Tbiv = bivalent temperature	COPd	1,90	
TOL = operation limit	Pdh	19,90	kW	TOL = operation limit	COPd	2,04	
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	

Temperatura bivalente	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
-----------------------	------	----	----	-----------------------------	-----	-----	----

Degradation co-efficient heat pumps (**)	Cdc	0,25	-				
--	-----	------	---	--	--	--	--

**Power consumption in modes other than "active mode"**

**Supplementary heater**

Off mode	P <sub>OFF</sub>	0,003	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P <sub>TO</sub>	0,003	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0,003	kW	Standby mode	P <sub>SB</sub>	0,003	kW

**Other items**

Capacity control		Variable		Air flow rate, outdoor measured	-	11000	m <sup>3</sup> /h
Sound power level, indoor/outdoor measured	L <sub>WA</sub>	75/84	dB(A)	Rated brine or water flow rate, outdoor side heat exchanger	-	-	m <sup>3</sup> /h
Emissions of nitrogen oxides (if applicable)	NOX(**)	-	mg/kWh input GCV				
GWP of refrigerant	GWP	2088	KgCO <sub>2</sub> eq./100 anni				

Contact details:

**Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (BS) - Italy**

(\*) If Cdc 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.