



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 20 HW / ABDGI 20 SH3

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 | Prated,c | 20,0 | kW | Seasonal space cooling energy efficiency | ηs,c | 191,0 | % |

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

| | | | |
|-----------|-----|-------|----|
| Tj = 35°C | Pdc | 20,05 | kW |
| Tj = 30°C | Pdc | 13,87 | kW |
| Tj = 25°C | Pdc | 8,94 | kW |
| Tj = 20°C | Pdc | 4,61 | kW |

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

| | | | |
|-----------|------|------|---|
| Tj = 35°C | EERd | 2,24 | - |
| Tj = 30°C | EERd | 4,79 | - |
| Tj = 25°C | EERd | 5,41 | - |
| Tj = 20°C | EERd | 5,60 | - |

Degradation co-efficient for air conditioners (*)

| | | |
|-----|------|---|
| Cdc | 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} | 0,000 | kW | Standby mode | P _{SB} | 0,003 | kW |

Other items

| | | | | | | | |
|--|-----------------|----------|-----------------------------------|---|-----------------|------|-------------------|
| Capacity control | | variable | | | | | |
| Sound power level, indoor/outdoor | L _{WA} | 72/77 | dB(A) | For air-to-air air conditioner: air flow rate, outdoor measured | L _{WA} | 8000 | m ³ /h |
| If engine driven: Emissions of nitrogen oxides | NOX(**) | - | mg/kWh fuel input GVC | | | | |
| GWP of the refrigerant | GWP | 2088 | Kg CO ₂ 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 20 HW / ABDGI 20 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 | 22,0 | kW | Seasonal space heating energy efficiency | ηs,h | 133,6 | % |

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 | 13,22 | kW | Tj = -7°C | COPd | 2,42 | |
| Tj = 2°C | Pdh | 7,03 | kW | Tj = 2°C | COPd | 3,25 | |
| Tj = 7°C | Pdh | 4,65 | kW | Tj = 7°C | COPd | 4,40 | |
| Tj = 12°C | Pdh | 6,97 | kW | Tj = 12°C | COPd | 5,36 | |
| Tbiv = bivalent temperature | Pdh | 13,22 | kW | Tbiv = bivalent temperature | COPd | 2,42 | |
| TOL = operation limit | Pdh | 13,35 | kW | TOL = operation limit | COPd | 2,15 | |
| 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 _{OFF} | 0,003 | kW | Back-up heating capacity (*) | elbu | - | kW |
| Thermostat-off mode | P _{TO} | 0,003 | kW | Type of energy input | | | |
| Crankcase heater mode | P _{CK} | 0,003 | kW | Standby mode | P _{SB} | 0,003 | kW |

Other items

| | | | | | | | |
|--|-----------------|----------|--------------------------------|---|---|------|-------------------|
| Capacity control | | Variable | | Air flow rate, outdoor measured | - | 8000 | m ³ /h |
| Sound power level, indoor/outdoor measured | L _{WA} | 73/81 | dB(A) | Rated brine or water flow rate, outdoor side heat exchanger | - | - | m ³ /h |
| Emissions of nitrogen oxides (if applicable) | NOX(**) | - | mg/kWh input GCV | | | | |
| GWP of refrigerant | GWP | 2088 | KgCO ₂ eq./100 anni | | | | |

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