

Information requirements
(air-to-air air conditioners)

Model(s): DS-100GMV-COMPACT-4_DOS-100GM							
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	$P_{rated,c}$	25.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	201.28	%
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}	25.2	kW	$T_j = + 35\text{ °C}$	EER_d	2.6	-
$T_j = + 30\text{ °C}$	P_{dc}	18.7	kW	$T_j = + 30\text{ °C}$	EER_d	3.8	-
$T_j = + 25\text{ °C}$	P_{dc}	12.0	kW	$T_j = + 25\text{ °C}$	EER_d	6.3	-
$T_j = + 20\text{ °C}$	P_{dc}	5.1	kW	$T_j = + 20\text{ °C}$	EER_d	7.0	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	-				-
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.021	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.003	kW	Standby mode	P_{SB}	0.021	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	11000	m ³ /h
Sound power level, indoor/outdoor	L_{WA}	77/78	dB				
If engine driven: Emissions of nitrogen oxides	$NO_x(**)$	-	mg/kWh fuel input GCV				
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
(*) 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.							

(heat pump)

Model(s): DS-100GMV-COMPACT-4_DOS-100GM							
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	$P_{rated,h}$	28.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	141.44	%
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			
$T_j = -7$ °C	P_{dh}	14.7	kW	$T_j = -7$ °C	COP_d	2.5	-
$T_j = +2$ °C	P_{dh}	9.6	kW	$T_j = +2$ °C	COP_d	3.3	-
$T_j = +7$ °C	P_{dh}	6.4	kW	$T_j = +7$ °C	COP_d	5.1	-
$T_j = +12$ °C	P_{dh}	3.4	kW	$T_j = +12$ °C	COP_d	5.4	-
T_{biv} = bivalent temperature	P_{dh}	14.7	kW	T_{biv} = bivalent temperature	COP_d	2.5	-
T_{OL} = operation limit	P_{dh}	16.1	kW	T_{OL} = operation limit	COP_d	2.3	-
$T_j = -15$ °C (if $TOL < -20$ °C)	P_{dh}	-	kW	$T_j = -15$ °C (if $TOL < -20$ °C)	COP_d	-	-
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}	0.021	kW	Back-up heating capacity (*)	$elbu$	1.420	kW
Thermostat-off mode	P_{TO}	0.024	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.021	kW
Other items							
Capacity control	variable			air flow rate, outdoor measured	—	11000	m ³ /h
Sound power level, indoor/outdoor measured	L_{WA}	77/78	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(***)$	-	mg/kWh input GCV	Rated brine, outdoor side heat exchanger	—	-	m ³ /h
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
(*)							
(**) 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.							