Erp Information

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MOUG-68HD1N1-R
Test matching indoor units form, non-duct: 2×MI-45Q4+2×MI-56Q4;

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

If applicable: driver of compressor: electric motor

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	20	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	281.4	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	20	kW		T_j=+35°C	EER_d	3.79	--
T_j=+30°C	P_{dc}	14.811	kW		T_j=+30°C	EER_d	4.71	--
T_j=+25°C	P_{dc}	9.760	kW		T_j=+25°C	EER_d	9.11	--
T_j=+20°C	P_{dc}	6.378	kW		T_j=+20°C	EER_d	12.76	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.04	kW		Crankcase heater mode	P_{CK}	0	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.04	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	—	9000	m^3/h
Sound power level, outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg $CO_{2\,eq}$(100years)					

Contact details

(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

Heating mode: Table.2

Information requirements for heat pumps

Model(s): MOUG-68HD1N1-R ;
Test matching indoor units form, non-duct: 2×MI-45Q4+2×MI-56Q4;

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Idication if the heater is equipped with a supplementary heater: no

If applicable: driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	20	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	155	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/ auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	10.629	kW		T_j=-7°C	COP_d	3.19	--
T_j=+2°C	P_{dh}	6.471	kW		T_j=+2°C	COP_d	3.39	--
T_j=+7°C	P_{dh}	5.763	kW		T_j=+7°C	COP_d	6.62	--
T_j=+12°C	P_{dh}	3.652	kW		T_j=+12°C	COP_d	7.57	--
T_{biv}=bivalent temperature	P_{dh}	10.629	kW		T_{biv} =bivalent temperature	COP_d	3.19	--
T_{OL}=operation temperature	P_{dh}	12.310	kW		T_{OL} =operation temperature	COP_d	2.44	--
Bivalent temperature	T_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.04	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.04	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0	kW		Standby mode	P_{SB}	0.04	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	—	9000	m^3/h
Sound power level, outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg $CO_{2\,eq}$ (100years)					
Contact details								

(*)

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

Cooling mode: Table.3

Information requirements for air-to-air conditioners

Model(s): MOUG-76HD1N1-R ;
Test matching indoor units form, non-duct: 4×MI-56Q4;

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

If applicable: driver of compressor: electric motor

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	22.4	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	270.2	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	22.4	kW		T_j=+35°C	EER_d	3.31	--
T_j=+30°C	P_{dc}	16.645	kW		T_j=+30°C	EER_d	4.57	--
T_j=+25°C	P_{dc}	10.990	kW		T_j=+25°C	EER_d	8.61	--
T_j=+20°C	P_{dc}	6.399	kW		T_j=+20°C	EER_d	12.8	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.04	kW		Crankcase heater mode	P_{CK}	0	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.04	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	—	9000	m^3/h
Sound power level, outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$(100years)					

Contact details

(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

Heating mode: Table.4

Information requirements for heat pumps

Model(s): MOUG-76HD1N1-R ; Test matching indoor units form, non-duct: 4×MI-56 Q4;								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
Idication if the heater is equipped with a supplementary heater: no								
If applicable: driver of compressor: electric motor								
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasoms are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	22.4	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	167.4	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	12.113	kW		T_j=-7°C	COP_d	3.22	--
T_j=+2°C	P_{dh}	7.272	kW		T_j=+2°C	COP_d	3.56	--
T_j=+7°C	P_{dh}	5.825	kW		T_j=+7°C	COP_d	6.76	--
T_j=+12°C	P_{dh}	3.703	kW		T_j=+12°C	COP_d	7.76	--
T_{biv}=bivalent temperature	P_{dh}	12.113	kW		T_{biv} =bivalent temperature	COP_d	3.22	--
T_{OL}=operation temperature	P_{dh}	13.74	kW		T_{OL} =operation temperature	COP_d	2.35	--
Bivalent temperature	T_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.04	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.04	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0	kW		Standby mode	P_{SB}	0.04	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	—	9000	m^3/h
Sound power level, outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$(100years)					
Contact details								
(*)								
(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer								

Cooling mode: Table.5

Information requirements for air-to-air conditioners

Model(s): MOUG-96HD1N1-R ;
Test matching indoor units form, non-duct: 2×MI-56Q4+2×MI-90Q4;

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

If applicable: driver of compressor: electric motor

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	28	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	251	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	28	kW		T_j=+35°C	EER_d	2.33	--
T_j=+30°C	P_{dc}	20.662	kW		T_j=+30°C	EER_d	4.31	--
T_j=+25°C	P_{dc}	13.537	kW		T_j=+25°C	EER_d	8.16	--
T_j=+20°C	P_{dc}	6.328	kW		T_j=+20°C	EER_d	12.66	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.04	kW		Crankcase heater mode	P_{CK}	0.04	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.04	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	—	11000	m^3/h
Sound power level, outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$(100years)					

Contact details

(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

Heating mode: Table.6

Information requirements for heat pumps

Model(s): MOUG-96HD1N1-R ; Test matching indoor units form, non-duct: 2×MI-56Q4+2×MI-90Q4;								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
Idication if the heater is equipped with a supplementary heater: no								
If applicable: driver of compressor: electric motor								
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasoms are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	28	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	179.4	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	15.715	kW		T_j=-7°C	COP_d	2.93	--
T_j=+2°C	P_{dh}	9.445	kW		T_j=+2°C	COP_d	3.99	--
T_j=+7°C	P_{dh}	6.060	kW		T_j=+7°C	COP_d	7.26	--
T_j=+12°C	P_{dh}	3.906	kW		T_j=+12°C	COP_d	8.48	--
T_{biv}=bivalent temperature	P_{dh}	15.715	kW		T_{biv} =bivalent temperature	COP_d	2.93	--
T_{OL}=operation temperature	P_{dh}	17.534	kW		T_{OL} =operation temperature	COP_d	2.21	--
Bivalent temperature	T_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.04	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.04	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0	kW		Standby mode	P_{SB}	0.04	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	—	11000	m^3/h
Sound power level, outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$(100years)					
Contact details								
(*)								
(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer								

Cooling mode: Table.7

Information requirements for air-to-air conditioners

Model(s): MOUG-120HD1N1-R;
Test matching indoor units form, non-duct: 6×MI-56Q4;

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

If applicable: driver of compressor: electric motor

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	33.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	253.8	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	33.500	kW		T_j=+35°C	EER_d	2.19	--
T_j=+30°C	P_{dc}	23.814	kW		T_j=+30°C	EER_d	4.21	--
T_j=+25°C	P_{dc}	15.216	kW		T_j=+25°C	EER_d	8.36	--
T_j=+20°C	P_{dc}	7.644	kW		T_j=+20°C	EER_d	15.29	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.03	kW		Crankcase heater mode	P_{CK}	0	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.03	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	—	11300	m^3/h
Sound power level, outdoor	L_{WA}	81	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$(100years)					

Contact details

(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

Heating mode: Table.6

Information requirements for heat pumps

Model(s): MOUG-120HD1N1-R;
Test matching indoor units form, non-duct: 6×MI-56Q4;

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Idication if the heater is equipped with a supplementary heater: no

If applicable: driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	33.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	155.4	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	17.114	kW		T_j=-7°C	COP_d	2.3	--
T_j=+2°C	P_{dh}	10.512	kW		T_j=+2°C	COP_d	3.54	--
T_j=+7°C	P_{dh}	6.894	kW		T_j=+7°C	COP_d	7.00	--
T_j=+12°C	P_{dh}	3.214	kW		T_j=+12°C	COP_d	5.48	--
T_{biv}=bivalent temperature	P_{dh}	17.114	kW		T_{biv} =bivalent temperature	COP_d	230	--
T_{OL}=operation temperature	P_{dh}	19.50	kW		T_{OL} =operation temperature	COP_d	2.25	--
Bivalent temperature	T_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.03	kW		Back-up heating capacity(*)	elbu	0.03	kW
Thermosat-off mode	P_{TO}	0.03	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0	kW		Standby mode	P_{SB}	0.03	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	—	11300	m^3/h
Sound power level, outdoor	L_{WA}	81	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$(100years)					
Contact details								

(*)

(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer

14HP

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s):M0UG-140HD1N1-R Test matching indoor units form, cassette: 2×MIH45Q4N18 + 4×MIH80Q4N18								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
Type: compressor driven								
Driver of compressor: electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	40.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	263.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency /auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	40.00	kW		T_j=+35°C	EER_d	2.54	--
T_j=+30°C	P_{dc}	29.48	kW		T_j=+30°C	EER_d	4.36	--
T_j=+25°C	P_{dc}	18.95	kW		T_j=+25°C	EER_d	8.21	--
T_j=+20°C	P_{dc}	7.88	kW		T_j=+20°C	EER_d	13.60	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	--					
Power consumption in modes other than “active mode”								
Off mode	P_{OFF}	0.005	kW		Crankcase heater mode	P_{CK}	0.04	kW
Thermosat-off mode	P_{TO}	0.005	kW		Standby mode	P_{SB}	0.005	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	--	12500	m^3/h
Sound power level, outdoor	L_{WA}	82	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$ (100years)					
Contact details (*)If C_{dc} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.								
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

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Heating mode:

Information requirements for heat pumps								
Model(s):M0UG-140HD1N1-R Test matching indoor units form, cassette: 2×MIH45Q4N18 + 4×MIH80Q4N18								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
If the heater is equipped with a supplementary heater: no								
Driver of compressor: electric motor								
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	40.00	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	163.0	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	19.47	kW		T_j=-7°C	COP_d	2.51	--
T_j=+2°C	P_{dh}	11.85	kW		T_j=+2°C	COP_d	4.19	--
T_j=+7°C	P_{dh}	7.62	kW		T_j=+7°C	COP_d	4.98	--
T_j=+12°C	P_{dh}	4.65	kW		T_j=+12°C	COP_d	7.31	--
T_{biv}=bivalent temperature	P_{dh}	22.01	kW		T_{biv} =bivalent temperature	COP_d	2.52	--
T_{OL}=operation temperature	P_{dh}	22.01	kW		T_{OL} =operation temperature	COP_d	2.52	--
Bivalent temperature	T_{biv}	-10	°C					
Degradation co-efficient for 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	0.04	kW
Thermosat-off mode	P_{TO}	0.005	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.04	kW		Standby mode	PSB	0.005	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	--	12500	m^3/h
Sound power level,outdoor	L_{WA}	82	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$ (100years)					
Contact details								
(*)								
(**)If C_{dh} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.								
Where information relates to multi-split heat pumps, xthe test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

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Cooling mode:

Information requirements for air-to-air conditioners								
Model(s): M0UG-150HD1N1-R Test matching indoor units form, cassette: MIH56Q4N18 + 4×MIH80Q4N18 + MIH90Q4N18								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
Type: compressor driven								
Driver of compressor: electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	45.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	267.8	%
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency /auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	45.00	kW		T_j=+35°C	EER_d	2.82	--
T_j=+30°C	P_{dc}	33.17	kW		T_j=+30°C	EER_d	4.47	--
T_j=+25°C	P_{dc}	21.31	kW		T_j=+25°C	EER_d	7.91	--
T_j=+20°C	P_{dc}	9.46	kW		T_j=+20°C	EER_d	14.20	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	--					
Power consumption in modes other than “active mode”								
Off mode	P_{OFF}	0.005	kW		Crankcase heater mode	Pck	0.04	kW
Thermosat-off mode	P_{TO}	0.005	kW		Standby mode	Psb	0.005	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	--	18500	m^3/h
Sound power level, outdoor	L_{WA}	86	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$ (100years)					
Contact details								
(*)If C_{dc} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.								
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

16HP

Heating mode:

Information requirements for heat pumps								
Model(s): M0UG-150HD1N1-R Test matching indoor units form, cassette: MIH56Q4N18 + 4*MIH80Q4N18 + MIH90Q4N18								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
If the heater is equipped with a supplementary heater: no								
Driver of compressor: electric motor								
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	45.00	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	166.2	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	21.88	kW		T_j=-7°C	COP_d	2.68	--
T_j=+2°C	P_{dh}	13.32	kW		T_j=+2°C	COP_d	4.29	--
T_j=+7°C	P_{dh}	8.57	kW		T_j=+7°C	COP_d	5.13	--
T_j=+12°C	P_{dh}	7.39	kW		T_j=+12°C	COP_d	6.96	--
T_{biv}=bivalent temperature	P_{dh}	24.74	kW		T_{biv} =bivalent temperature	COP_d	2.08	--
T_{OL}=operation temperature	P_{dh}	24.74	kW		T_{OL} =operation temperature	COP_d	2.08	--
Bivalent temperature	T_{biv}	-10	°C					
Degradation co-efficient for 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	0.04	kW
Thermosat-off mode	P_{TO}	0.005	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.04	kW		Standby mode	PSB	0.005	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	--	18500	m^3/h
Sound power level,outdoor	L_{WA}	86	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$ (100years)					
Contact details								
(*)								
(**)If C_{dh} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.								
Where information relates to multi-split heat pumps, xthe test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

20HP

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s): M0UG-192HD1N1-R Test matching indoor units form, cassette: 2×MIH45Q4N18 + 6×MIH80Q4N18								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
Type: compressor driven								
Driver of compressor: electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	56.00	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	249.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency /auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=+35°C	P_{dc}	56.00	kW		T_j=+35°C	EER_d	2.45	--
T_j=+30°C	P_{dc}	40.04	kW		T_j=+30°C	EER_d	4.10	--
T_j=+25°C	P_{dc}	25.74	kW		T_j=+25°C	EER_d	7.64	--
T_j=+20°C	P_{dc}	12.26	kW		T_j=+20°C	EER_d	13.60	--
Degradation co-efficient for air conditioners(*)	C_{dc}		--					
Power consumption in modes other than “active mode”								
Off mode	P_{OFF}	0.005	kW		Crankcase heater mode	P_{CK}	0.04	kW
Thermosat-off mode	P_{TO}	0.005	kW		Standby mode	P_{SB}	0.005	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	--	18500	m^3/h
Sound power level, outdoor	L_{WA}	89	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$ (100years)					
Contact details (*)If C_{dc} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.								
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

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Heating mode:

Information requirements for heat pumps								
Model(s): M0UG-192HD1N1-R Test matching indoor units form, cassette: 2×MIH45Q4N18 + 6×MIH80Q4N18								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
If the heater is equipped with a supplementary heater: no								
Driver of compressor: electric motor								
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	56.00	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	159.8	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
T_j=-7°C	P_{dh}	30.51	kW		T_j=-7°C	COP_d	2.57	--
T_j=+2°C	P_{dh}	18.58	kW		T_j=+2°C	COP_d	3.59	--
T_j=+7°C	P_{dh}	12.42	kW		T_j=+7°C	COP_d	6.36	--
T_j=+12°C	P_{dh}	10.38	kW		T_j=+12°C	COP_d	8.31	--
T_{biv}=bivalent temperature	P_{dh}	30.80	kW		T_{biv} =bivalent temperature	COP_d	2.03	--
T_{OL}=operation temperature	P_{dh}	30.80	kW		T_{OL} =operation temperature	COP_d	2.03	--
Bivalent temperature	T_{biv}	-10	°C					
Degradation co-efficient for 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	0.04	kW
Thermosat-off mode	P_{TO}	0.005	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.04	kW		Standby mode	P_{SB}	0.005	kW
Other items								
Capacity control	variable				For air-to-air heat pump: air flow rate, outdoor measured	--	18500	m^3/h
Sound power level,outdoor	Lwa	89	dB					
GWP of the refrigerant		2088	kg $CO_{2\ eq}$ (100years)					
Contact details								
(*)								
(**)If C_{dh} is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.								
Where information relates to multi-split heat pumps, xthe test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								