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Information requirements for heat pumps

Information to identify the model(s) to which the information relates:
Outdoor：AU062FCFRA
Indoor：3xAD122MJFRA+1xAD162MJFRA

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

Climate type: average heating season

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	185.4	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
Tj = – 7 °C	Pdh	9.01	kW	Tj = – 7 °C	COP_d	2.90	w/w
Tj =+ 2 °C	Pdh	5.50	kW	Tj =+ 2 °C	COP_d	4.58	w/w
Tj =+ 7 °C	Pdh	3.57	kW	Tj =+ 7 °C	COP_d	6.62	w/w
Tj =+ 12 °C	Pdh	2.51	kW	Tj =+ 12 °C	COP_d	10.35	w/w
T_{biv} = bivalent temperature	Pdh	9.01	kW	T_{biv} = bivalent temperature	COP_d	2.90	w/w
T_{OL} = operation limit	Pdh	10.20	kW	T_{OL} = operation limit	COP_d	2.40	w/w
Bivalent temperature	T_{biv}	-7	°C	Degradation co-efficient heat pumps	C_{dh}	0.25	—
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Back-up heating capacity	elbu	0	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	electric energy		
Crankcase heater mode	P_{CK}	0	kW	Standby mode	P_{SB}	0.025	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	4208	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	AD122: 29; AD162: 29	dB	GWP of the refrigerant	675	kg $CO_{2\ eq}$ (100 years)	
Contact details	Please visit www.haier.com for further information						

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Information requirements for air-to-air air conditioners

Information to identify the model(s) to which the information relates:
Outdoor：AU062FCFRA
Indoor：3xAD122MJFRA+1xAD162MJFRA

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven vapour compression or sorption process: vapour compression

If applicable: driver of compressor: electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	15.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	301.8	%
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	Pdc	15.5	kW	T_j = + 35 °C	EER_d	3.23	w/w
T_j = + 30 °C	Pdc	11.47	kW	T_j = + 30 °C	EER_d	5.12	w/w
T_j = + 25 °C	Pdc	7.29	kW	T_j = + 25 °C	EER_d	9.79	w/w
T_j = + 20 °C	Pdc	3.26	kW	T_j = + 20 °C	EER_d	13.60	w/w
Degradation co-efficient heat pumps	C_{dh}	0.25	—				

Power consumption in modes other than 'active mode'

Off mode	P_{OFF}	0.023	kW	Crankcase heater mode	P_{CK}	0	kW
Thermostat-off mode	P_{TO}	0.023	kW	Standby mode	P_{SB}	0.023	kW

Other items

Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	4208	m^3/h
Sound power level, indoor/outdoor measured	LWA	AD122：29；AD162：29	dB	GWP of the refrigerant	675	kg $CO_{2\ eq}$ (100 years)	
Contact details	Please visit www.haier.com for further information						

Haier

Information requirements for heat pumps

Information to identify the model(s) to which the information relates:
Outdoor：AU062FCFRA
Indoor：3xAB122MRFRA+AB162MRFRA

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

Climate type: average heating season

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	185.4	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
Tj = – 7 °C	Pdh	9.01	kW	Tj = – 7 °C	COP_d	2.90	w/w
Tj =+ 2 °C	Pdh	5.50	kW	Tj =+ 2 °C	COP_d	4.58	w/w
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T_{OL} = operation limit	Pdh	10.20	kW	T_{OL} = operation limit	COP_d	2.40	w/w
Bivalent temperature	T_{biv}	-7	°C	Degradation co-efficient heat pumps	C_{dh}	0.25	—
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Back-up heating capacity	elbu	0	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	electric energy		
Crankcase heater mode	P_{CK}	0	kW	Standby mode	P_{SB}	0.025	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	4208	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	AB122: 33; AB162: 33	dB	GWP of the refrigerant	675	kg $CO_{2\ eq}$ (100 years)	
Contact details	Please visit www.haier.com for further information						

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Information requirements for air-to-air air conditioners

Information to identify the model(s) to which the information relates:
Outdoor：AU062FCFRA
Indoor：3xAB122MRFRA+AB162MRFRA

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven vapour compression or sorption process: vapour compression

If applicable: driver of compressor: electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	15.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	301.8	%
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	Pdc	15.5	kW	T_j = + 35 °C	EER_d	3.23	w/w
T_j = + 30 °C	Pdc	11.47	kW	T_j = + 30 °C	EER_d	5.12	w/w
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T_j = + 20 °C	Pdc	3.26	kW	T_j = + 20 °C	EER_d	13.60	w/w
Degradation co-efficient heat pumps	C_{dh}	0.25	—				

Power consumption in modes other than 'active mode'

Off mode	P_{OFF}	0.023	kW	Crankcase heater mode	P_{CK}	0	kW
Thermostat-off mode	P_{TO}	0.023	kW	Standby mode	P_{SB}	0.023	kW

Other items

Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	4208	m^3/h
Sound power level, indoor/outdoor measured	LWA	AB122：33；AB162：33	dB	GWP of the refrigerant	675	kg $CO_{2\ eq}$ (100 years)	
Contact details	Please visit www.haier.com for further information						