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Information requirements for heat pumps

Information to identify the model(s) to which the information relates:
Outdoor：AU08NFAFRA
Indoor：4xAD182MJFRA

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	$P_{rated,h}$	22.6	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	183	%
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	10.90	kW	Tj = – 7 °C	COP_d	3.50	w/w
Tj =+ 2 °C	Pdh	6.70	kW	Tj =+ 2 °C	COP_d	4.50	w/w
Tj =+ 7 °C	Pdh	4.35	kW	Tj =+ 7 °C	COP_d	6.65	w/w
Tj =+ 12 °C	Pdh	1.90	kW	Tj =+ 12 °C	COP_d	7.00	w/w
T_{biv} = bivalent temperature	Pdh	10.90	kW	T_{biv} = bivalent temperature	COP_d	3.50	w/w
T_{OL} = operation limit	Pdh	12.90	kW	T_{OL} = operation limit	COP_d	3.10	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	—	6160	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	AD182: 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：AU08NFAFRA
Indoor：4xAD182MJFRA

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	$P_{rated,c}$	22.6	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	304	%
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	22.6	kW	T_j = + 35 °C	EER_d	3.25	w/w
T_j = + 30 °C	Pdc	16.70	kW	T_j = + 30 °C	EER_d	5.55	w/w
T_j = + 25 °C	Pdc	10.60	kW	T_j = + 25 °C	EER_d	9.22	w/w
T_j = + 20 °C	Pdc	4.70	kW	T_j = + 20 °C	EER_d	18.68	w/w
Degradation co-efficient heat pumps	C_{dh}	0.25	—				

Power consumption in modes other than 'active mode'

Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0	kW
Thermostat-off mode	P_{TO}	0.020	kW	Standby mode	P_{SB}	0.020	kW

Other items

Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	6160	m^3/h
Sound power level, indoor/outdoor measured	LWA	AD182: 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：AU08NFAFRA
Indoor：4xAB182MRFRA

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	$P_{rated,h}$	22.6	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	183	%
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	10.90	kW	Tj = – 7 °C	COP_d	3.50	w/w
Tj =+ 2 °C	Pdh	6.70	kW	Tj =+ 2 °C	COP_d	4.50	w/w
Tj =+ 7 °C	Pdh	4.35	kW	Tj =+ 7 °C	COP_d	6.65	w/w
Tj =+ 12 °C	Pdh	1.90	kW	Tj =+ 12 °C	COP_d	7.00	w/w
T_{biv} = bivalent temperature	Pdh	10.90	kW	T_{biv} = bivalent temperature	COP_d	3.50	w/w
T_{OL} = operation limit	Pdh	12.90	kW	T_{OL} = operation limit	COP_d	3.10	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	—	6160	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	AB182：33	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：AU08NFAFRA
Indoor：4xAB182MRFRA

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	$P_{rated,c}$	22.6	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	304	%
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	22.6	kW		T_j = + 35 °C	EER_d	3.25	w/w
T_j = + 30 °C	Pdc	16.70	kW		T_j = + 30 °C	EER_d	5.55	w/w
T_j = + 25 °C	Pdc	10.60	kW		T_j = + 25 °C	EER_d	9.22	w/w
T_j = + 20 °C	Pdc	4.70	kW		T_j = + 20 °C	EER_d	18.68	w/w
Degradation co-efficient heat pumps	C_{dh}	0.25	—					

Power consumption in modes other than 'active mode'

Off mode	P_{OFF}	0.020	kW		Crankcase heater mode	P_{CK}	0	kW
Thermostat-off mode	P_{TO}	0.020	kW		Standby mode	P_{SB}	0.020	kW

Other items

Capacity control	variable				For air-to-air heat pumps: air flow rate, outdoor measured	—	6160	m^3/h
Sound power level, indoor/outdoor measured	LWA	AB182：33	dB		GWP of the refrigerant	675	kg $CO_{2\ eq}$ (100 years)	
Contact details	Please visit www.haier.com for further information							