

Model name : F12KM U24 / F12KM NSM

Function (indicate if present)	
cooling	Y
heating	Y

If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
Average (mandatory)	Y
Warmer (if designated)	N
Colder (if designated)	N

Item	symbol	value	unit
Design load			
cooling	Pdesignc	3.5	kW
heating / Average	Pdesignh	3.8	kW
heating / Warmer	Pdesignh	x,x	kW
heating / Colder	Pdesignh	x,x	kW

Item	symbol	value	unit
Seasonal efficiency			
cooling	SEER	9.1	-
heating / Average	SCOP/A	5.1	-
heating / Warmer	SCOP/W	x,x	-
heating / Colder	SCOP/C	x,x	-

Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	3.5	kW
Tj=30°C	Pdc	2.6	kW
Tj=25°C	Pdc	1.7	kW
Tj=20°C	Pdc	1.1	kW

Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	4.2	-
Tj=30°C	EERd	6.9	-
Tj=25°C	EERd	10.6	-
Tj=20°C	EERd	18.1	-

Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	3.4	kW
Tj=2°C	Pdh	2.1	kW
Tj=7°C	Pdh	1.3	kW
Tj=12°C	Pdh	0.9	kW
Tj=bivalent temperature	Pdh	3.8	kW
Tj=operating limit	Pdh	3.8	kW

Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	3.0	-
Tj=2°C	COPd	5.2	-
Tj=7°C	COPd	6.6	-
Tj=12°C	COPd	7.9	-
Tj=bivalent temperature	COPd	2.5	-
Tj=operating limit	COPd	2.5	-

Declared capacity* for heating / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	x,x	kW
Tj=7°C	Pdh	x,x	kW
Tj=12°C	Pdh	x,x	kW
Tj=bivalent temperature	Pdh	x,x	kW
Tj=operating limit	Pdh	x,x	kW

Declared Coefficient of performance* / Warmer climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	x,x	-
Tj=7°C	COPd	x,x	-
Tj=12°C	COPd	x,x	-
Tj=bivalent temperature	COPd	x,x	-
Tj=operating limit	COPd	x,x	-

Declared capacity* for heating / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	x,x	kW
Tj=2°C	Pdh	x,x	kW
Tj=7°C	Pdh	x,x	kW
Tj=12°C	Pdh	x,x	kW
Tj=bivalent temperature	Pdh	x,x	kW
Tj=operating limit	Pdh	x,x	kW
Tj=-15°C	Pdh	x,x	kW

Declared Coefficient of performance* / Colder climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	x,x	-
Tj=2°C	COPd	x,x	-
Tj=7°C	COPd	x,x	-
Tj=12°C	COPd	x,x	-
Tj=bivalent temperature	COPd	x,x	-
Tj=operating limit	COPd	x,x	-
Tj=-15°C	COPd	x,x	-

Bivalent temperature			
heating / Average	Tbiv	-10	°C
heating / Warmer	Tbiv	x	°C
heating / Colder	Tbiv	x	°C

Operating limit temperature			
heating / Average	ToI	-10	°C
heating / Warmer	ToI	x	°C
heating / Colder	ToI	x	°C

Cycling interval capacity			
for cooling	Pcyc	x,x	kW
for heating	Pcyc	x,x	kW

Cycling interval efficiency			
for cooling	EERcyc	x,x	-
for heating	COPcyc	x,x	-

Degradation co-efficient cooling**	Cdc	0.25	-
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Degradation co-efficient heating**	Cdh	0.25	-
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Electric power input in power modes other than 'active mode'			
off mode	P _{OFF}	0.001	kW
standby mode	P _{SB}	0.001	kW
thermostat-off mode	P _{TO}	0.013	kW
crankcase heater mode	P _{CK}	0.000	kW

Annual electricity consumption			
cooling	Q _{CE}	135	kWh/a
heating / Average	Q _{HE}	1043	kWh/a
heating / Warmer	Q _{HE}	x	kWh/a
heating / Colder	Q _{HE}	x	kWh/a

Capacity control (indicate one of three options)	
fixed	N
staged	N
variable	Y

Other items			
Sound power level (indoor/outdoor)	L _{WA}	60 / 65	dB(A)
Global warming potential	GWP	675	kgCO ₂ eq.
Rated air flow (indoor/outdoor)	-	858 / 2940	m ³ /h

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*= For staged capacity units, two values divided by a slash (/) will be declared in each box in the section 'Declared capacity of the unit' and declared EER/COP of the unit.
 **= If default Cd=0,25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.