

Model name

F09MT U24 (Outdoor unit) / F09MT NSM (Indoor unit)

Function (indicate if present)	
cooling	Y
heating	Y

Item	symbol	value	unit
Design load			
cooling	Pdesignc	2,5	kW
heating / Average	Pdesignh	3,7	kW
heating / Warmer	Pdesignh	x,x	kW
heating / Colder	Pdesignh	x,x	kW

Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	2,50	kW
Tj=30°C	Pdc	1,85	kW
Tj=25°C	Pdc	1,23	kW
Tj=20°C	Pdc	1,10	kW

Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Td			
Tj=-7°C	Pdh	3,28	kW
Tj=2°C	Pdh	1,99	kW
Tj=7°C	Pdh	1,29	kW
Tj=12°C	Pdh	0,88	kW
Tj=bivalent temperature	Pdh	3,70	kW
Tj=operating limit	Pdh	3,70	kW

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

If the 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
Seasonal efficiency			
cooling	SEER	9,4	-
heating / Average	SCOP/A	5,1	-
heating / Warmer	SCOP/W	x,x	-
heating / Colder	SCOP/C	x,x	-

Declared Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	5,10	-
Tj=30°C	EERd	7,59	-
Tj=25°C	EERd	10,80	-
Tj=20°C	EERd	18,10	-

Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	3,04	-
Tj=2°C	COPd	5,19	-
Tj=7°C	COPd	6,55	-
Tj=12°C	COPd	7,90	-
Tj=bivalent temperature	COPd	2,48	-
Tj=operating limit	COPd	2,48	-

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

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

Cycling interval capacity			
for cooling	Pcycc	x,x	kW
for heating	Pcyhc	x,x	kW

Degradation cooling**	co-efficient Cdc	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	kW

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

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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	-

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

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

Degradation heating**	co-efficient Cdh	0,25	-
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Annual electricity consumption			
cooling	Q _{CE}	93	kWh/a
heating / Average	Q _{HE}	1016	kWh/a
heating / Warmer	Q _{HE}	xx	kWh/a
heating / Colder	Q _{HE}	xx	kWh/a

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

*= 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.



Model name

F12MT U24 (Outdoor unit) / F12MT NSM (Indoor unit)

Function (indicate if present)	
cooling	Y
heating	Y

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

Declared capacity* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	3,50	kW
Tj=30°C	Pdc	2,58	kW
Tj=25°C	Pdc	1,66	kW
Tj=20°C	Pdc	1,10	kW

Declared capacity* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Td			
Tj=-7°C	Pdh	3,37	kW
Tj=2°C	Pdh	2,05	kW
Tj=7°C	Pdh	1,32	kW
Tj=12°C	Pdh	0,88	kW
Tj=bivalent temperature	Pdh	3,80	kW
Tj=operating limit	Pdh	3,80	kW

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

If the 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
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 Energy efficiency ratio* for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	4,20	-
Tj=30°C	EERd	6,90	-
Tj=25°C	EERd	10,62	-
Tj=20°C	EERd	18,10	-

Declared Coefficient of performance* for heating / Average climate, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	3,04	-
Tj=2°C	COPd	5,19	-
Tj=7°C	COPd	6,55	-
Tj=12°C	COPd	7,90	-
Tj=bivalent temperature	COPd	2,48	-
Tj=operating limit	COPd	2,48	-

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

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

Cycling interval capacity			
for cooling	Pcycc	x,x	kW
for heating	Pcyhc	x,x	kW

Degradation cooling**	co-efficient Cdc	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	kW

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

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

Cycling interval efficiency			
for cooling	EER _{cycc}	x,x	-
for heating	COP _{cyhc}	x,x	-

Degradation heating**	co-efficient Cdh	0,25	-
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Annual electricity consumption			
cooling	Q _{CE}	135	kWh/a
heating / Average	Q _{HE}	1043	kWh/a
heating / Warmer	Q _{HE}	xx	kWh/a
heating / Colder	Q _{HE}	xx	kWh/a

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

*= 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.

