

Subtype Fulda M12

Certificate Holder	Innova S.r.l.
Address	Via 1° Maggio, 8
ZIP	38089
City	STORO (TN)
Country	IT
Certification Body	Kiwa Nederland B.V.
Subtype title	Fulda M12
Registration number	007-DQ0215
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.45 kg
Certification Date	05.12.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v15)
Testing laboratory	KIWA, NL

Model Fulda M12 M		
Model name	Fulda M12 M	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	Colder, Warmer	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	11.80 kW	11.50 kW
El input	kW	kW
COP	5.00	3.20
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	197 %	150 %
Prated	10.20 kW	9.70 kW
SCOP	5.00	3.83
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.00 kW	8.65 kW
COP Tj = -7°C	2.95	2.25
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.45 kW	5.25 kW
COP Tj = +2°C	4.80	3.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.65 kW	3.55 kW
COP Tj = +7°C	6.80	5.20
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.05 kW	3.90 kW
COP Tj = 12°C	10.20	7.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.20 kW	9.70 kW
COP Tj = Tbiv	2.70	2.00

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.20 kW	9.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4212 kWh	5227 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	159 %	133 %
Prated	15.10 kW	14.50 kW
SCOP	4.05	3.40
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.10 kW	8.85 kW
COP Tj = -7°C	3.15	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.50 kW	5.35 kW
COP Tj = +2°C	5.10	4.40
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.60 kW
COP Tj = +7°C	7.20	5.70
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.05 kW	3.95 kW
COP Tj = 12°C	10.20	8.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.30 kW	9.90 kW
COP Tj = Tbiv	2.90	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900

WTOL	75 °C	75 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.10 kW	5.80 kW
Annual energy consumption Q _{he}	9183 kWh	10507 kWh
P _{dh} T _j = -15°C (if TOL	10.80	10.50
COP T _j = -15°C (if TOL	2.70	2.15
C _{dh} T _j = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	270 %	194 %
Prated	10.80 kW	10.70 kW
SCOP	6.84	4.94
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	10.80 kW	10.70 kW
COP T _j = +2°C	3.30	2.45
C _{dh} T _j = +2 °C	0.900	0.900
P _{dh} T _j = +7°C	7.00 kW	6.90 kW
COP T _j = +7°C	5.70	4.00
C _{dh} T _j = +7 °C	0.900	0.900
P _{dh} T _j = 12°C	4.00 kW	3.80 kW
COP T _j = 12°C	9.40	6.90
C _{dh} T _j = +12 °C	0.900	0.900
P _{dh} T _j = T _{biv}	10.80 kW	10.70 kW
COP T _j = T _{biv}	3.30	2.45
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.80 kW	10.70 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.30	2.45
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.900	0.900
WTOL	75 °C	75 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2111 kWh	2897 kWh

Model Fulda M12 T		
Model name	Fulda M12 T	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	Colder, Warmer	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-2 Heating		
	Low temperature	Medium temperature
Heat output	11.80 kW	11.50 kW
El input	kW	kW
COP	5.00	3.20
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	197 %	150 %
Prated	10.20 kW	9.70 kW
SCOP	5.00	3.83
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.00 kW	8.65 kW
COP Tj = -7°C	2.95	2.25
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.45 kW	5.25 kW
COP Tj = +2°C	4.80	3.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.65 kW	3.55 kW
COP Tj = +7°C	6.80	5.20
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.05 kW	3.90 kW
COP Tj = 12°C	10.20	7.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.20 kW	9.70 kW
COP Tj = Tbiv	2.70	2.00

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.20 kW	9.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4214 kWh	5229 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	159 %	133 %
Prated	15.10 kW	14.50 kW
SCOP	4.05	3.40
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.10 kW	8.85 kW
COP Tj = -7°C	3.15	2.55
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.50 kW	5.35 kW
COP Tj = +2°C	5.10	4.40
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.70 kW	3.60 kW
COP Tj = +7°C	7.20	5.70
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.05 kW	3.95 kW
COP Tj = 12°C	10.20	8.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.30 kW	9.90 kW
COP Tj = Tbiv	2.90	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900

WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.10 kW	5.80 kW
Annual energy consumption Q _{he}	9184 kWh	10508 kWh
P _{dh} T _j = -15°C (if TOL	10.80	10.50
COP T _j = -15°C (if TOL	2.70	2.15
C _{dh} T _j = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	270 %	194 %
Prated	10.80 kW	10.70 kW
SCOP	6.82	4.92
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	10.80 kW	10.70 kW
COP T _j = +2°C	3.30	2.45
C _{dh} T _j = +2 °C	0.900	0.900
P _{dh} T _j = +7°C	7.00 kW	6.90 kW
COP T _j = +7°C	5.70	4.00
C _{dh} T _j = +7 °C	0.900	0.900
P _{dh} T _j = 12°C	4.00 kW	3.80 kW
COP T _j = 12°C	9.40	6.90
C _{dh} T _j = +12 °C	0.900	0.900
P _{dh} T _j = T _{biv}	10.80 kW	10.70 kW
COP T _j = T _{biv}	3.30	2.45
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.80 kW	10.70 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.30	2.45
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.900	0.900
WTOL	75 °C	75 °C
Poff	19 W	19 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2117 kWh	2903 kWh