

Subtype Fulda M5

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 M5
Registration number	007-DQ0212
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.6 kg
Certification Date	05.12.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v15)
Testing laboratory	KIWA, NL

Model Fulda M5 M

Model name	Fulda M5 M
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
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	5.00 kW	4.50 kW
El input	kW	kW
COP	5.20	3.25

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	200 %	153 %
Prated	4.50 kW	4.20 kW
SCOP	5.06	3.90
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.90 kW	3.75 kW
COP Tj = -7°C	3.10	2.40
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.45 kW	2.30 kW
COP Tj = +2°C	4.90	3.80
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.80 kW	1.90 kW
COP Tj = +7°C	6.80	5.30
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.00 kW	1.90 kW
COP Tj = 12°C	9.80	7.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.50 kW	4.20 kW
COP Tj = Tbiv	2.85	2.10

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.10
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	1836 kWh	2223 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	159 %	133 %
Prated	6.70 kW	6.30 kW
SCOP	4.06	3.39
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.00 kW	3.80 kW
COP Tj = -7°C	3.20	2.70
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.50 kW	2.35 kW
COP Tj = +2°C	5.10	4.25
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.85 kW	1.80 kW
COP Tj = +7°C	7.00	5.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.00 kW	1.95 kW
COP Tj = 12°C	9.80	8.40
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.60 kW	4.30 kW
COP Tj = Tbiv	3.00	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.90 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.85
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	2.80 kW	2.60 kW
Annual energy consumption Q _{he}	4070 kWh	4576 kWh
P _{dh} T _j = -15°C (if TOL	4.80	4.60
COP T _j = -15°C (if TOL	2.70	2.10
C _{dh} T _j = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	264 %	191 %
Prated	4.50 kW	4.40 kW
SCOP	6.66	4.86
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.50 kW	4.40 kW
COP T _j = +2°C	3.45	2.45
C _{dh} T _j = +2 °C	0.900	0.900
P _{dh} T _j = +7°C	2.90 kW	2.85 kW
COP T _j = +7°C	5.90	4.10
C _{dh} T _j = +7 °C	0.900	0.900
P _{dh} T _j = 12°C	1.95 kW	1.85 kW
COP T _j = 12°C	8.80	6.70
C _{dh} T _j = +12 °C	0.900	0.900
P _{dh} T _j = T _{biv}	4.50 kW	4.40 kW
COP T _j = T _{biv}	3.45	2.45
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.50 kW	4.40 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.45	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}	902 kWh	1210 kWh