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Summary of	R32 Monobloc 9kW silent	Reg. No.	011-1W0191
Certificate Holder			
Name	LG Electronics Inc.		
Address	84, Wanam-ro, seongsan-gu	Zip	51554
City	Changwon-si	Country	South Korea
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	R32 Monobloc 9kW silent		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	2.1 kg		
Certification Date	15.11.2019		

## Model: HM091MRS U33

Configure model	
Model name	HM091MRS U33
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Phase-out Date	03.02.2024

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	6.00 kW
El input	1.76 kW	2.14 kW
COP	5.10	2.80

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	184 %	130 %
Prated	8.00 kW	8.00 kW
SCOP	4.68	3.33
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	7.60 kW	7.08 kW
COP Tj = -7°C	3.00	2.00
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.50 kW	4.31 kW
COP Tj = +2°C	4.65	3.20
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	3.60 kW	3.10 kW
COP Tj = +7°C	6.00	4.60
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	3.00 kW	2.75 kW
COP Tj = 12°C	8.10	6.71
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.50	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.70
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	2.00 kW
Annual energy consumption Qhe	3533 kWh	4971 kWh