

Subtype SDHB1-035SNWO

Certificate Holder	Saunier Duval Brand Group
Address	SDECCI SAS - 17 rue de la Petite Baratte
ZIP	44300
City	Nantes
Country	FR
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	SDHB1-035SNWO
Registration number	011-1W0898
Heat Pump Type	Air/Air Single Split
Refrigerant	R32
Mass of Refrigerant	0.55 kg
Certification Date	20.09.2024
Testing basis	European KEYMARK Scheme for Heat Pumps V.14 (2024-04)

Model SDHB1-035SNWO + SDHB1-035SNWI

Model name	SDHB1-035SNWO + SDHB1-035SNWI
Application	Heating + Cooling
Units	n/a
Climate zone (for heating)	Warmer
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Air/Air Single Split

EN 14511-4 | Cooling

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	A7/A20
Heating capacity	3.75
El input	1.00 kW
COP	3.76

EN 14511-2 | Cooling

	A35/A27
El input	0.98 kW
Cooling capacity	3.37
EER	3.45

EN 12102-1 | Cooling

Sound power level indoor	59 dB(A)
Sound power level outdoor	62 dB(A)

EN 14825 | Cooling

	Indoor dry(wet) bulb temperature 27(19)°C
P _{designc}	3.40 kW
SEER	7.10
P _{dc} T _j = 35°C	3.50 kW
EER T _j = 35°C	3.50
C _{dc} T _j = 35 °C	0.250
P _{dc} T _j = 30°C	2.49 kW
EER T _j = 30°C	5.40

Cdc Tj = 30 °C	0.250
Pdc Tj = 25°C	1.61 kW
EER Tj = 25°C	8.75
Cdc Tj = 25 °C	0.250
Pdc Tj = 20°C	1.56 kW
EER Tj = 20°C	13.50
Cdc Tj = 20 °C	0.250
Poff	3 W
PTO	8 W
PSB	3 W
PCK	0 W
Annual energy consumption Qce	173 kWh

EN 14825 | Average Climate

	Indoor dry bulb temperature: 20°C
Pdesignh	3.20 kW
SCOP	4.10
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	2.92 kW
COP Tj = -7°C	2.56
Cdh Tj = -7 °C	0.250
Pdh Tj = +2°C	1.70 kW
COP Tj = +2°C	4.02
Cdh Tj = +2 °C	0.250
Pdh Tj = +7°C	1.12 kW
COP Tj = +7°C	5.50
Cdh Tj = +7 °C	0.250
Pdh Tj = 12°C	1.21 kW
COP Tj = 12°C	6.81
Cdh Tj = +12 °C	0.250
Pdh Tj = Tbiv	2.92 kW
COP Tj = Tbiv	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.250
Poff	3 W
PTO	8 W
PSB	3 W
PCK	0 W
Backup Heater	0.00 kW
Annual energy consumption Qhe	1093 kWh

EN 14825 | Warmer Climate

Indoor dry bulb temperature: 20°C	
P _{designh}	3.30 kW
SCOP	5.20
T _{biv}	2 °C
TOL	2 °C
P _{dh} T _j = +2°C	3.34 kW
COP T _j = +2°C	2.36
C _{dh} T _j = +2 °C	0.250
P _{dh} T _j = +7°C	2.17 kW
COP T _j = +7°C	4.86
C _{dh} T _j = +7 °C	0.250
P _{dh} T _j = 12°C	1.21 kW
COP T _j = 12°C	6.81
C _{dh} T _j = +12 °C	0.250
P _{dh} T _j = T _{biv}	3.34 kW
COP T _j = T _{biv}	2.36
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.34 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.36
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.250
P _{off}	3 W
PTO	8 W
PSB	3 W
PCK	0 W
Backup Heater	0.00 kW
Annual energy consumption Q _{he}	888 kWh