This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	HA 7-5 OS 230V	Reg. No.	40049301
Certificate Holder			
Name	Saunier Duval Brand Group		
Address		Zip	
City		Country	Germany
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH		
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	HA 7-5 OS 230V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.39 kg		

Model: HA 7-5 OS 230V + HA 7-5 WSB

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.72 kW	4.92 kW
El input	1.22 kW	1.81 kW
COP	4.67	2.71
Indoor water flow rate	1.02 m³/h	0.55 m³/h

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	179 %	135 %
Prated	7.13 kW	6.40 kW
SCOP	4.56	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.35 kW	5.66 kW
COP Tj = -7°C	2.59	2.00
Pdh Tj = +2°C	3.95 kW	3.34 kW
COP Tj = +2°C	4.50	3.34
Pdh Tj = +7°C	2.76 kW	2.73 kW
COP Tj = +7°C	6.26	4.76
Pdh Tj = 12°C	3.33 kW	3.24 kW
COP Tj = 12°C	8.13	6.52
Pdh Tj = Tbiv	6.31 kW	5.66 kW

COP Tj = Tbiv	2.58	2.00
Pdh Tj = TOL	5.71 kW	4.95 kW
COP Tj = TOL	2.39	1.85
Cdh	0.98	0.98
WTOL	55 °C	55 °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	3231 kWh	3826 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	254 %	163 %
Prated	4.55 kW	3.98 kW
SCOP	6.43	4.15
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.55 kW	3.98 kW
COP Tj = +2°C	3.75	2.31
Pdh Tj = +7°C	2.86 kW	2.49 kW
COP Tj = +7°C	5.88	3.45
Pdh Tj = 12°C	3.25 kW	3.19 kW
COP Tj = 12°C	7.92	5.62
Pdh Tj = Tbiv	4.55 kW	3.98 kW
COP Tj = Tbiv	3.75	2.31
Pdh Tj = TOL	4.55 kW	3.98 kW
COP Tj = TOL	3.75	2.31
Cdh	0.98	0.98
WTOL	55 °C	55 °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	946 kWh	1279 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	162 %	119 %
Prated	6.66 kW	5.40 kW
SCOP	4.11	3.06
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	3.93 kW	3.59 kW
COP Tj = -7°C	3.58	2.55
Pdh Tj = +2°C	2.35 kW	2.37 kW
COP Tj = +2°C	4.93	3.89

Pdh Tj = +7°C	2.82 kW	2.82 kW
COP Tj = +7°C	6.64	6.64
Pdh Tj = 12°C	3.25 kW	3.28 kW
COP Tj = 12°C	8.16	7.12
Pdh Tj = Tbiv	5.43 kW	4.41 kW
COP Tj = Tbiv	2.50	1.73
Pdh Tj = TOL	3.79 kW	4.41 kW
COP Tj = TOL	2.10	1.73
Cdh	0.98	0.98
WTOL	55 °C	55 °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	3989 kWh	4355 kWh

Model: HA 7-5 OS 230V + HA 7-5 STB

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.72 kW	4.92 kW
El input	1.22 kW	1.81 kW
COP	4.67	2.71
Indoor water flow rate	1.02 m³/h	0.55 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	135 %
Prated	7.13 kW	6.40 kW
SCOP	4.56	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.35 kW	5.66 kW
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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	3231 kWh	3826 kWh

Warmer Climate

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	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	254 %	163 %
Prated	4.55 kW	3.98 kW
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Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
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COP Tj = Tbiv	3.75	2.31
Pdh Tj = TOL	4.55 kW	3.98 kW
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WTOL	55 °C	55 °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	946 kWh	1279 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
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SCOP	4.11	3.06
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COP Tj = TOL	2.10	1.73
Cdh	0.98	0.98
WTOL	55 °C	55 °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	3989 kWh	4355 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	112 %
COP	2.73
Heating up time	01:45 h:min
Standby power input	80.0 W
Reference hot water temperature	50.7 °C
Mixed water at 40°C	246 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	134 %
COP	3.26
Heating up time	01:28 h:min
Standby power input	70.0 W
Reference hot water temperature	51.2 °C
Mixed water at 40°C	242 l

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	102 %
COP	2.48
Heating up time	02:03 h:min
Standby power input	90.0 W
Reference hot water temperature	46.9 °C
Mixed water at 40°C	246 l