

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





	I	
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
РТО	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





This information was get	ierated by the Hi KETM	ARK database on 17 Dec 2020
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
РТО	11 W	11 W
PSB	11 W	11 W
РСК	o 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





This information was ge	Tieratea by the Till RETIN	Title database on 17 Dec 202
Pdh Tj = +7°C	2.82 kW	2.82 kW
$COP Tj = +7^{\circ}C$	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
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	o 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	
СОР	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
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





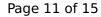
$$\operatorname{\textit{Page}}\ 10$$ of 15 This information was generated by the HP KEYMARK database on 17 Dec 2020

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
РТО	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	41 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was get	ierated by the Hi KETM	ARK database on 17 Dec 2020
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
РТО	11 W	11 W
PSB	11 W	11 W
РСК	o w	0 W



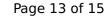


Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	946 kWh	1279 kWh

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
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





sine microscope general grant	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = +7°C	2.82 kW	2.82 kW
$COP Tj = +7^{\circ}C$	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
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o w	o 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

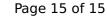


EN 16147		
Declared load profile	XL	
Efficiency ηDHW	112 %	
СОР	2.73	
Heating up time	01:45 h:min	
Standby power input	80.0 W	
Reference hot water temperature	50.7 °C	
Mixed water at 40°C	246	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	134 %	
СОР	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	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	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	