

Page 1 of 17

	~	ei.	n
L	Ju	11	и

Summary of	DAITSU SPLIT URBAN 22 30	Reg. No.	041-K010-09	
Certificate Holder	'	<u> </u>		
Name	Eurofred S.A.			
Address	Marqués de Sentmenat, 97	Zip	08029	
City	Barcelona	Country	Spain	
Certification Body	BRE Global Limited	BRE Global Limited		
Subtype title	DAITSU SPLIT URBAN 22 30	DAITSU SPLIT URBAN 22 30		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R32			
Mass of Refrigerant	1.1 kg			
Certification Date	08.03.2021	08.03.2021		
Testing basis	Heat Pump Keymark Scheme Rules	Heat Pump Keymark Scheme Rules Rev 09		

Model: SPLIT URBAN AOWD 22

Configure model		
Model name	SPLIT URBAN AOWD 22	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	7.98 kW	
El input	1.61 kW	2.60 kW	
СОР	4.97	3.06	

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



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	47 dB(A)	47 dB(A)	
Sound power level outdoor	67 dB(A)	67 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	217 %	159 %
Prated	8.00 kW	8.00 kW
SCOP	5.50	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	8.20 kW	8.10 kW
$COP Tj = +2^{\circ}C$	3.58	2.52
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.40 kW	5.30 kW
$COP Tj = +7^{\circ}C$	4.84	3.38
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.10 kW	5.20 kW
COP Tj = 12°C	7.08	5.42
Cdh Tj = +12 °C	0.960	0.970

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

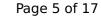




Pdh Tj = Tbiv	8.20 kW	8.10 kW
COP Tj = Tbiv	3.58	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.20 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.58	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	25 W	25 W
РТО	25 W	25 W
PSB	25 W	25 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1947 kWh	2645 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)





	146 % 7.00 kW	112 %
Prated	7.00 kW	
		7.00 kW
SCOP	3.72	2.87
Tbiv	-15 °C	-15 °C
TOL -	-22 °C	-22 °C
Pdh Tj = -7° C	4.50 kW	4.60 kW
$COP Tj = -7^{\circ}C$	3.26	2.64
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2^{\circ}$ C	3.30 kW	3.30 kW
$COP Tj = +2^{\circ}C$	4.26	3.24
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COP Tj = +7^{\circ}C$	6.04	4.76
Cdh Tj = $+7$ °C	0.960	0.970
Pdh Tj = 12°C	4.90 kW	4.70 kW
COP Tj = 12°C	7.26	5.86
Cdh Tj = $+12$ °C	0.960	0.970
Pdh Tj = Tbiv	5.80 kW	5.90 kW
COP Tj = Tbiv	2.63	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	2.90 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.52	1.26
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	25 W	25 W
РТО	25 W	25 W
PSB	25 W	25 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.50 kW	4.10 kW
Annual energy consumption Qhe	4628 kWh	5982 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.80	5.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.63	1.77
Cdh Tj = -15 °C	0.990	0.990

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)





	Low temperature	Medium temperature
η_{s}	181 %	129 %
Prated	7.00 kW	7.00 kW
SCOP	4.60	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.20 kW	6.30 kW
$COP Tj = -7^{\circ}C$	2.94	2.24
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.90 kW	4.10 kW
$COPTj = +2^{\circ}C$	4.39	3.18
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = $+7$ °C	3.00 kW	4.30 kW
$COPTj = +7^{\circ}C$	6.29	4.26
Cdh Tj = +7 °C	0.950	0.970
Pdh Tj = 12°C	3.60 kW	5.00 kW
COP Tj = 12°C	8.43	5.93
Cdh Tj = +12 °C	0.940	0.970
Pdh Tj = Tbiv	6.20 kW	6.30 kW
COP Tj = Tbiv	2.94	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	6.30 kW
run ij – 10L of run ij = Tuesignin ii 10L < Tuesignin	J.90 KW	U.SU KVV





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	0.70 kW
Annual energy consumption Qhe	3149 kWh	4371 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	143 %	
СОР	3.40	
Heating up time	1:33 h:min	
Standby power input	30.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	226	



Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	94 %	
СОР	2.25	
Heating up time	1:58 h:min	
Standby power input	38.2 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	226	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	123 %	
СОР	2.92	
Heating up time	1:47 h:min	
Standby power input	36.1 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	226 I	

Model: SPLIT URBAN AOWD 30

Configure model		
Model name	SPLIT URBAN AOWD 30	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.00 kW	9.47 kW
El input	2.10 kW	3.12 kW
СОР	4.76	3.04

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	217 %	161 %
Prated	9.00 kW	9.00 kW
SCOP	5.50	4.10
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.80 kW	9.00 kW
COP Tj = +2°C	3.15	2.48
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.80 kW	5.90 kW
$COP Tj = +7^{\circ}C$	4.86	3.56
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.10 kW	5.20 kW
COP Tj = 12°C	7.18	5.30
Cdh Tj = +12 °C	0.960	0.970

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

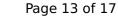




Pdh Tj = Tbiv	8.80 kW	9.00 kW
COP Tj = Tbiv	3.15	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	25 W	25 W
РТО	25 W	25 W
PSB	25 W	25 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2183 kWh	2927 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)





The same same and the same same same same same same same sam	Low temperature	Medium temperature
η_{s}	149 %	110 %
Prated	8.00 kW	8.00 kW
SCOP	3.80	2.82
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.20 kW	5.30 kW
COP Tj = -7°C	3.25	2.42
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	3.20 kW	3.10 kW
$COP Tj = +2^{\circ}C$	4.31	3.23
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COPTj = +7^{\circ}C$	6.11	4.78
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	7.30	5.91
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.40 kW	6.70 kW
COP Tj = Tbiv	2.69	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	3.30 kW

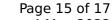




1.67	1.22
60 °C	60 °C
25 W	25 W
Electricity	Electricity
2.40 kW	4.70 kW
5201 kWh	6985 kWh
6.40	6.70
2.69	1.83
0.990	0.990
	60 °C 25 W 25 W 25 W 25 W Electricity 2.40 kW 5201 kWh 6.40 2.69

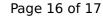
Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)





Prated 9. SCOP 4. Tbiv -7	181 % 9.00 kW 4.60 7 °C	127 % 8.00 kW 3.25 -7 °C
SCOP 4. Tbiv -7	1.60 7 °C	3.25
Tbiv -7	7 °C	
		-7 °C
TO! 1	10 °C	
TOL -1	10 C	-10 °C
$Pdh Tj = -7^{\circ}C$ 7.	7.70 kW	6.90 kW
$COP Tj = -7^{\circ}C$ 2.	2.87	2.12
Cdh Tj = -7 °C 0 .	0.990	0.990
$Pdh Tj = +2^{\circ}C$ 4.	4.80 kW	4.20 kW
$COP Tj = +2^{\circ}C$ 4.	1.34	3.09
Cdh Tj = +2 °C 0.	0.980	0.980
$Pdh Tj = +7^{\circ}C$ 3.	3.10 kW	4.30 kW
$COP Tj = +7^{\circ}C$	5.58	4.34
Cdh Tj = +7 °C 0.	0.950	0.970
$Pdh Tj = 12^{\circ}C$ 3.	3.70 kW	4.90 kW
COP Tj = 12°C 8.	3.37	5.91
Cdh Tj = +12 °C 0.	0.940	0.970
Pdh Tj = Tbiv 7.	7.70 kW	6.90 kW
COP Tj = Tbiv 2.	2.87	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh 7.	7.10 kW	6.80 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	25 W	25 W
РТО	25 W	25 W
PSB	25 W	25 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	1.20 kW
Annual energy consumption Qhe	4038 kWh	5091 kWh

Domestic Hot Water (DHW)

EN 16147	
Declared load profile	L
Efficiency ηDHW	143 %
СОР	3.40
Heating up time	1:33 h:min
Standby power input	30.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	226



Colder Climate

EN 16147		
Declared lead profile		
Declared load profile	L	
Efficiency ηDHW	94 %	
СОР	2.25	
Heating up time	1:58 h:min	
Standby power input	38.2 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	226	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	123 %	
СОР	2.92	
Heating up time	1:47 h:min	
Standby power input	36.1 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	226 I	