

Subtype TALIA HYBRID FLEX LINK R32

Certificate Holder	Ariston Thermo Group
Address	Viale Aristide Merloni 45
ZIP	I-60044
City	Fabriano (AN)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	TALIA HYBRID FLEX LINK R32
Registration number	ICIM-PDC-000195
Heat Pump Type	Hybrid Air/Water
Refrigerant	R32
Mass of Refrigerant	1 kg
Certification Date	02.05.2023
Testing laboratory	Politecnico di Milano, IT ReLAB - Renewable Heating and Cooling Lab

Model TALIA HYBRID FLEX LINK R32

Model name	TALIA HYBRID FLEX LINK R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

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

Hybrid Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	128 %
COP	3.00
Heating up time	1:55 h:min
Standby power input	40.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.50 kW	2.95 kW
El input	0.69 kW	1.09 kW
COP	5.10	2.70

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.03 kW	
Cooling capacity	3.50	
EER	3.40	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	5.20 kW	4.63 kW
η _s	194 %	134 %
P _{rated}	5.20 kW	4.63 kW
SCOP	4.94	3.43
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.60 kW	4.10 kW
COP T _j = -7°C	3.21	2.28
C _{dh} T _j = -7 °C	0.990	0.990
P _{dh} T _j = +2°C	2.88 kW	2.63 kW
COP T _j = +2°C	4.66	3.35
C _{dh} T _j = +2 °C	0.980	0.983
P _{dh} T _j = +7°C	1.85 kW	1.76 kW
COP T _j = +7°C	6.56	4.22
C _{dh} T _j = +7 °C	0.970	0.970
P _{dh} T _j = 12°C	1.92 kW	1.88 kW
COP T _j = 12°C	8.49	6.30
C _{dh} T _j = +12 °C	0.960	0.960
P _{dh} T _j = T _{biv}	4.60 kW	4.10 kW
COP T _j = T _{biv}	3.21	2.28
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.10 kW	3.79 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.90	1.90
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.991	0.993
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Electricity
Supplementary Heater: PSUP	1.10 kW	0.90 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	2780 kWh	2790 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	7.75 kW	7.43 kW
η _s	172 %	134 %
P _{rated}	7.75 kW	7.43 kW
SCOP	4.40	3.43
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.69 kW	4.50 kW
COP T _j = -7°C	3.54	2.76
C _{dh} T _j = -7 °C	0.990	0.990
P _{dh} T _j = +2°C	2.95 kW	2.94 kW
COP T _j = +2°C	5.16	3.99
C _{dh} T _j = +2 °C	0.980	0.980
P _{dh} T _j = +7°C	1.89 kW	1.92 kW
COP T _j = +7°C	7.19	5.35
C _{dh} T _j = +7 °C	0.970	0.970
P _{dh} T _j = 12°C	1.92 kW	1.93 kW
COP T _j = 12°C	8.55	6.96
C _{dh} T _j = +12 °C	0.942	0.953
P _{dh} T _j = T _{biv}	4.69 kW	4.50 kW
COP T _j = T _{biv}	3.54	2.76
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.03 kW	2.46 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.25	1.52
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	0.992
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	7.34 kW	7.04 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Q _{he}	4355 kWh	5337 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	2.84 kW	2.35 kW
η _s	240 %	137 %

Prated	2.84 kW	2.35 kW
SCOP	6.06	3.49
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	2.84 kW	2.35 kW
COP Tj = +2°C	4.00	2.19
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	1.88 kW	1.60 kW
COP Tj = +7°C	5.57	2.80
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.91 kW	1.81 kW
COP Tj = 12°C	7.94	5.10
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	2.84 kW	2.35 kW
COP Tj = Tbiv	4.00	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.84 kW	2.35 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.00	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.982	0.988
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	626 kWh	899 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.5 kW	
SEER	4.87	
Pdc Tj = 35°C	3.5 kW	
EER Tj = 35°C	3	
Pdc Tj = 30°C	2.58 kW	
EER Tj = 30°C	4.33	
Cdc Tj = 30 °C	0.98	
Pdc Tj = 25°C	1.72 kW	
EER Tj = 25°C	5.86	
Cdc Tj = 25 °C	0.95	
Pdc Tj = 20°C	1.79 kW	
EER Tj = 20°C	7.24	
Cdc Tj = 20 °C	0.94	

Poff	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Qce	628 kWh