


ESAS SILENT R404a

ENERGY EFFICIENCY DATA SHEETS

*Values of COP and SEPR in conformity
to the rule UE2015/1095 of May 5th 2015*

N° DOC. Im000100
REV. "00" - 01.07.17

TECHNICAL DOCUMENTATION		STATE REVISION OF THE CHAPTER				IN CONFORMITY WITH THE APPROVED ORIGINAL		
PRODUCT	ESAS SILENT R404a	ORD.	DATE	ORD.	DATE			
N° DOC.		A		D			FIRST ISSUE	01.07.17
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Model	ESAS - GNS20 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,61	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	2,02	kW
Nominal absorbed power	<i>DA</i>	1,80	kW
Nominal COP	<i>COPA</i>	1,12	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	2,18	kW
Nominal absorbed power	<i>DB</i>	1,60	kW
Declared COP	<i>COPB</i>	1,36	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	2,40	kW
Nominal absorbed power	<i>DC</i>	1,37	kW
Declared COP	<i>COPC</i>	1,75	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	2,41	kW
Nominal absorbed power	<i>DA</i>	1,36	kW
Declared COP	<i>COPD</i>	1,77	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	1,75	kW
Nominal absorbed power	<i>D3</i>	2,18	kW
Declared COP	<i>COP3</i>	0,80	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GNS28 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,68	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	2,52	kW
Nominal absorbed power	<i>DA</i>	2,21	kW
Nominal COP	<i>COPA</i>	1,14	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	2,72	kW
Nominal absorbed power	<i>DB</i>	1,98	kW
Declared COP	<i>COPB</i>	1,37	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	2,98	kW
Nominal absorbed power	<i>DC</i>	1,72	kW
Declared COP	<i>COPC</i>	1,73	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	3,22	kW
Nominal absorbed power	<i>DA</i>	1,50	kW
Declared COP	<i>COPD</i>	2,14	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	2,16	kW
Nominal absorbed power	<i>D3</i>	2,60	kW
Declared COP	<i>COP3</i>	0,83	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GNS40 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,83	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	2,82	kW
Nominal absorbed power	<i>DA</i>	2,41	kW
Nominal COP	<i>COPA</i>	1,17	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	3,07	kW
Nominal absorbed power	<i>DB</i>	2,13	kW
Declared COP	<i>COPB</i>	1,44	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	3,41	kW
Nominal absorbed power	<i>DC</i>	1,81	kW
Declared COP	<i>COPC</i>	1,88	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	3,76	kW
Nominal absorbed power	<i>DA</i>	1,56	kW
Declared COP	<i>COPD</i>	2,40	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	2,43	kW
Nominal absorbed power	<i>D3</i>	2,92	kW
Declared COP	<i>COP3</i>	0,83	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GNS41 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,65	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	3,39	kW
Nominal absorbed power	<i>DA</i>	3,20	kW
Nominal COP	<i>COPA</i>	1,06	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	3,70	kW
Nominal absorbed power	<i>DB</i>	2,87	kW
Declared COP	<i>COPB</i>	1,29	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	4,13	kW
Nominal absorbed power	<i>DC</i>	2,44	kW
Declared COP	<i>COPC</i>	1,69	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	4,53	kW
Nominal absorbed power	<i>DA</i>	2,10	kW
Declared COP	<i>COPD</i>	2,16	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	2,90	kW
Nominal absorbed power	<i>D3</i>	3,86	kW
Declared COP	<i>COP3</i>	0,75	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GNS50 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,73	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	4,03	kW
Nominal absorbed power	<i>DA</i>	3,77	kW
Nominal COP	<i>COPA</i>	1,07	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	4,45	kW
Nominal absorbed power	<i>DB</i>	3,24	kW
Declared COP	<i>COPB</i>	1,37	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	4,97	kW
Nominal absorbed power	<i>DC</i>	2,75	kW
Declared COP	<i>COPC</i>	1,81	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	5,44	kW
Nominal absorbed power	<i>DA</i>	2,42	kW
Declared COP	<i>COPD</i>	2,25	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	3,33	kW
Nominal absorbed power	<i>D3</i>	4,89	kW
Declared COP	<i>COP3</i>	0,68	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GNS75 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,85	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	5,20	kW
Nominal absorbed power	<i>DA</i>	4,03	kW
Nominal COP	<i>COPA</i>	1,29	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	5,67	kW
Nominal absorbed power	<i>DB</i>	3,70	kW
Declared COP	<i>COPB</i>	1,53	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	6,29	kW
Nominal absorbed power	<i>DC</i>	3,29	kW
Declared COP	<i>COPC</i>	1,91	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	6,90	kW
Nominal absorbed power	<i>DA</i>	2,92	kW
Declared COP	<i>COPD</i>	2,36	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	4,45	kW
Nominal absorbed power	<i>D3</i>	4,68	kW
Declared COP	<i>COP3</i>	0,95	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GNS100 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-35°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	1,85	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	6,78	kW
Nominal absorbed power	<i>DA</i>	5,42	kW
Nominal COP	<i>COPA</i>	1,25	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	7,40	kW
Nominal absorbed power	<i>DB</i>	4,93	kW
Declared COP	<i>COPB</i>	1,50	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	8,24	kW
Nominal absorbed power	<i>DC</i>	4,31	kW
Declared COP	<i>COPC</i>	1,91	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	9,02	kW
Nominal absorbed power	<i>DA</i>	3,80	kW
Declared COP	<i>COPD</i>	2,37	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	5,78	kW
Nominal absorbed power	<i>D3</i>	6,28	kW
Declared COP	<i>COP3</i>	0,92	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GPS15 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	3,61	kW
Nominal absorbed power	<i>DA</i>	1,75	kW
Nominal COP	<i>COPA</i>	2,06	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	4,04	kW
Nominal absorbed power	<i>DB</i>	1,50	kW
Declared COP	<i>COPB</i>	2,69	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	x	kW
Nominal absorbed power	<i>DC</i>	x	kW
Declared COP	<i>COPC</i>	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	x	kW
Nominal absorbed power	<i>DA</i>	x	kW
Declared COP	<i>COPD</i>	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	2,89	kW
Nominal absorbed power	<i>D3</i>	2,25	kW
Declared COP	<i>COP3</i>	1,28	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GPS20 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	4,18	kW
Nominal absorbed power	<i>DA</i>	2,06	kW
Nominal COP	<i>COPA</i>	2,03	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	4,60	kW
Nominal absorbed power	<i>DB</i>	1,80	kW
Declared COP	<i>COPB</i>	2,56	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	x	kW
Nominal absorbed power	<i>DC</i>	x	kW
Declared COP	<i>COPC</i>	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	x	kW
Nominal absorbed power	<i>DA</i>	x	kW
Declared COP	<i>COPD</i>	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	3,49	kW
Nominal absorbed power	<i>D3</i>	2,55	kW
Declared COP	<i>COP3</i>	1,37	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GPS25 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,43	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	5,22	kW
Nominal absorbed power	<i>DA</i>	2,56	kW
Nominal COP	<i>COPA</i>	2,04	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	5,77	kW
Nominal absorbed power	<i>DB</i>	2,23	kW
Declared COP	<i>COPB</i>	2,59	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	6,51	kW
Nominal absorbed power	<i>DC</i>	1,83	kW
Declared COP	<i>COPC</i>	3,55	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	7,19	kW
Nominal absorbed power	<i>DA</i>	1,51	kW
Declared COP	<i>COPD</i>	4,75	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	4,31	kW
Nominal absorbed power	<i>D3</i>	3,15	kW
Declared COP	<i>COP3</i>	1,37	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GPS26 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,12	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	5,87	kW
Nominal absorbed power	<i>DA</i>	3,07	kW
Nominal COP	<i>COPA</i>	1,91	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	6,51	kW
Nominal absorbed power	<i>DB</i>	2,69	kW
Declared COP	<i>COPB</i>	2,42	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	7,38	kW
Nominal absorbed power	<i>DC</i>	2,22	kW
Declared COP	<i>COPC</i>	3,33	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	8,21	kW
Nominal absorbed power	<i>DA</i>	1,82	kW
Declared COP	<i>COPD</i>	4,51	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	4,86	kW
Nominal absorbed power	<i>D3</i>	3,77	kW
Declared COP	<i>COP3</i>	1,29	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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Model	ESAS - GPS30 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,44	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	6,12	kW
Nominal absorbed power	<i>DA</i>	2,91	kW
Nominal COP	<i>COPA</i>	2,10	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	6,76	kW
Nominal absorbed power	<i>DB</i>	2,54	kW
Declared COP	<i>COPB</i>	2,66	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	7,64	kW
Nominal absorbed power	<i>DC</i>	2,08	kW
Declared COP	<i>COPC</i>	3,67	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	8,48	kW
Nominal absorbed power	<i>DA</i>	1,71	kW
Declared COP	<i>COPD</i>	4,97	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	5,09	kW
Nominal absorbed power	<i>D3</i>	3,59	kW
Declared COP	<i>COP3</i>	1,42	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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TECHNICAL DOCUMENTATION		STATE REVISION OF THE CHAPTER				IN CONFORMITY WITH THE APPROVED ORIGINAL		
PRODUCT	ESAS SILENT R404a	ORD.	DATE	ORD.	DATE			
N° DOC.		A		D			FIRST ISSUE	01.07.17
N° CHAP.		B		E			ISSUE	MKTG
		C		F				

Model	ESAS - GPS40 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,49	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	8,96	kW
Nominal absorbed power	<i>DA</i>	4,17	kW
Nominal COP	<i>COPA</i>	2,15	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	9,90	kW
Nominal absorbed power	<i>DB</i>	3,66	kW
Declared COP	<i>COPB</i>	2,70	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	11,19	kW
Nominal absorbed power	<i>DC</i>	3,02	kW
Declared COP	<i>COPC</i>	3,71	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	12,42	kW
Nominal absorbed power	<i>DA</i>	2,46	kW
Declared COP	<i>COPD</i>	5,05	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	7,46	kW
Nominal absorbed power	<i>D3</i>	5,07	kW
Declared COP	<i>COP3</i>	1,47	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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TECHNICAL DOCUMENTATION		STATE REVISION OF THE CHAPTER				IN CONFORMITY WITH THE APPROVED ORIGINAL		
PRODUCT	ESAS SILENT R404a	ORD.	DATE	ORD.	DATE			
N° DOC.		A		D			FIRST ISSUE	01.07.17
N° CHAP.		B		E			ISSUE	MKTG
		C		F				

Model	ESAS - GPS47 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,42	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	10,26	kW
Nominal absorbed power	<i>DA</i>	4,91	kW
Nominal COP	<i>COPA</i>	2,09	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	11,36	kW
Nominal absorbed power	<i>DB</i>	4,32	kW
Declared COP	<i>COPB</i>	2,63	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	12,90	kW
Nominal absorbed power	<i>DC</i>	3,55	kW
Declared COP	<i>COPC</i>	3,63	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	14,41	kW
Nominal absorbed power	<i>DA</i>	2,90	kW
Declared COP	<i>COPD</i>	4,96	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	8,54	kW
Nominal absorbed power	<i>D3</i>	5,93	kW
Declared COP	<i>COP3</i>	1,44	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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TECHNICAL DOCUMENTATION		STATE REVISION OF THE CHAPTER				IN CONFORMITY WITH THE APPROVED ORIGINAL		
PRODUCT	ESAS SILENT R404a	ORD.	DATE	ORD.	DATE			
N° DOC.		A		D			FIRST ISSUE	01.07.17
N° CHAP.		B		E			ISSUE	MKTG
		C		F				

Model	ESAS - GPS70 COPELAND
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	x	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,37	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	12,12	kW
Nominal absorbed power	<i>DA</i>	5,66	kW
Nominal COP	<i>COPA</i>	2,14	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	13,35	kW
Nominal absorbed power	<i>DB</i>	4,96	kW
Declared COP	<i>COPB</i>	2,69	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	14,97	kW
Nominal absorbed power	<i>DC</i>	4,15	kW
Declared COP	<i>COPC</i>	3,61	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	16,43	kW
Nominal absorbed power	<i>DA</i>	3,49	kW
Declared COP	<i>COPD</i>	4,71	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	10,08	kW
Nominal absorbed power	<i>D3</i>	6,95	kW
Declared COP	<i>COP3</i>	1,45	

Control of capacity	<i>fixed</i>		
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Degradation coefficient of the units with a fixed and progressive capacity	<i>Cdc</i>	0,25	
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