


ECU AIR B MS 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	ECU AIR B MS R404a	ORD.	DATE	ORD.	DATE			
N° DOC.		A		D			FIRST ISSUE	01.07.17
N° CHAP.		B		E			ISSUE	MKTG
		C		F				

Model	ECU MS Air B2.2.2 MT
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	28347	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,27	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	15,07	kW
Nominal absorbed power	<i>DA</i>	6,59	kW
Nominal COP	<i>COPA</i>	2,29	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	16,82	kW
Nominal absorbed power	<i>DB</i>	6,19	kW
Declared COP	<i>COPB</i>	2,72	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	19,22	kW
Nominal absorbed power	<i>DC</i>	5,52	kW
Declared COP	<i>COPC</i>	3,48	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	21,46	kW
Nominal absorbed power	<i>DA</i>	4,74	kW
Declared COP	<i>COPD</i>	4,53	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	12,23	kW
Nominal absorbed power	<i>D3</i>	7,07	kW
Declared COP	<i>COP3</i>	1,73	

Control of capacity	<i>fixed/ progressive / variable</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	ECU MS Air B2.4.2 MT
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	32340	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,16	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	16,63	kW
Nominal absorbed power	<i>DA</i>	7,48	kW
Nominal COP	<i>COPA</i>	2,22	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	18,57	kW
Nominal absorbed power	<i>DB</i>	7,04	kW
Declared COP	<i>COPB</i>	2,64	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	21,23	kW
Nominal absorbed power	<i>DC</i>	6,30	kW
Declared COP	<i>COPC</i>	3,37	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	23,71	kW
Nominal absorbed power	<i>DA</i>	5,43	kW
Declared COP	<i>COPD</i>	4,37	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	13,50	kW
Nominal absorbed power	<i>D3</i>	8,01	kW
Declared COP	<i>COP3</i>	1,69	

Control of capacity	<i>fixed/ progressive / variable</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	ECU MS Air B2.4.21 MT
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	39547	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,25	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	20,94	kW
Nominal absorbed power	<i>DA</i>	9,30	kW
Nominal COP	<i>COPA</i>	2,25	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	23,36	kW
Nominal absorbed power	<i>DB</i>	8,71	kW
Declared COP	<i>COPB</i>	2,68	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	26,71	kW
Nominal absorbed power	<i>DC</i>	7,73	kW
Declared COP	<i>COPC</i>	3,46	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	29,91	kW
Nominal absorbed power	<i>DA</i>	6,58	kW
Declared COP	<i>COPD</i>	4,55	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	17,07	kW
Nominal absorbed power	<i>D3</i>	10,04	kW
Declared COP	<i>COP3</i>	1,70	

Control of capacity	<i>fixed/ progressive / variable</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	ECU MS Air B2.4.40 MT
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	45102	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	3,26	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	23,93	kW
Nominal absorbed power	<i>DA</i>	10,56	kW
Nominal COP	<i>COPA</i>	2,27	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	26,68	kW
Nominal absorbed power	<i>DB</i>	9,91	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>	30,52	kW
Nominal absorbed power	<i>DC</i>	8,80	kW
Declared COP	<i>COPC</i>	3,47	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	34,21	kW
Nominal absorbed power	<i>DA</i>	7,51	kW
Declared COP	<i>COPD</i>	4,55	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	19,56	kW
Nominal absorbed power	<i>D3</i>	11,39	kW
Declared COP	<i>COP3</i>	1,72	

Control of capacity	<i>fixed/ progressive / variable</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	ECU MS Air B2.4.41 MT
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	61775	kWh/a
Seasonal energy efficiency ratio	<i>SEPR</i>	2,77	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	<i>PA</i>	27,81	kW
Nominal absorbed power	<i>DA</i>	13,30	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>	30,81	kW
Nominal absorbed power	<i>DB</i>	12,67	kW
Declared COP	<i>COPB</i>	2,43	


Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	34,87	kW
Nominal absorbed power	<i>DC</i>	11,67	kW
Declared COP	<i>COPC</i>	2,99	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	38,58	kW
Nominal absorbed power	<i>DA</i>	10,60	kW
Declared COP	<i>COPD</i>	3,64	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	22,95	kW
Nominal absorbed power	<i>D3</i>	14,13	kW
Declared COP	<i>COP3</i>	1,62	

Control of capacity	<i>fixed/ progressive / variable</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	ECU MS Air B2.4.42 MT
Refrigerating Fluid	R404a

Element	Symbol	Value	Unit
Evaporation temperature	<i>t</i>	-10°C	°C
Annual consumption of electrical energy	<i>Q</i>	63129	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>	32,04	kW
Nominal absorbed power	<i>DA</i>	14,15	kW
Nominal COP	<i>COPA</i>	2,26	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	<i>PB</i>	35,72	kW
Nominal absorbed power	<i>DB</i>	13,38	kW
Declared COP	<i>COPB</i>	2,67	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	<i>PC</i>	40,92	kW
Nominal absorbed power	<i>DC</i>	12,18	kW
Declared COP	<i>COPC</i>	3,36	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	<i>PD</i>	45,95	kW
Nominal absorbed power	<i>DA</i>	10,91	kW
Declared COP	<i>COPD</i>	4,21	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	<i>P3</i>	26,21	kW
Nominal absorbed power	<i>D3</i>	15,21	kW
Declared COP	<i>COP3</i>	1,72	

Control of capacity	<i>fixed/ progressive / variable</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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