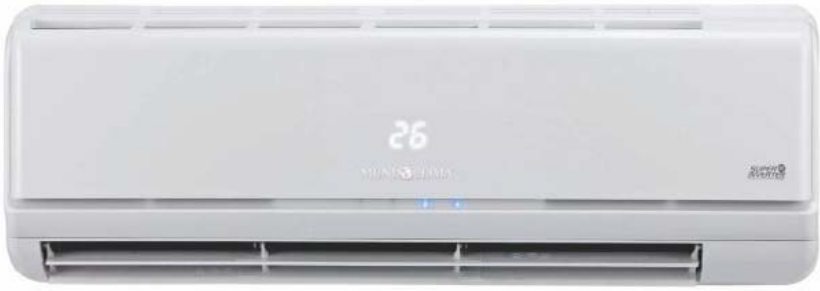
MUNDOCLIMA®

INVERTER SERIE H4

Tables of seasonal energy consumption and efficiency

MUPR-H4



CL20805 to CL20808
English

CONTENTS

1. Information requeriments

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011.
Information to identify the model(s) to which the information relates to:

2. Tables of seasonal consumption and efficiency

2.1. MUPR-09-H4

MUPR-09-H4							
Function (indicate if present)				if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling		Y		Average (mandatory)		Y	
heating		Y		Warmer (if designated)		N	
				Colder (if designated)		N	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	2,6	kW	cooling	SEER	5,6	-
heating/Average	Pdesignh	2,4	kW	heating/Average	SCOP/A	3,8	-
heating/Warmer	Pdesignh	x,x	kW	heating/Warmer	SCOP/W	x,x	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19) ℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19) ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 ℃	Pdc	2,637	kW	Tj = 35 ℃	EERd	3,28	-
Tj = 30 ℃	Pdc	1,971	kW	Tj = 30 ℃	EERd	4,62	-
Tj = 25 ℃	Pdc	1,335	kW	Tj = 25 ℃	EERd	6,61	-
Tj = 20 ℃	Pdc	1,299	kW	Tj = 20 ℃	EERd	9,02	-
Declared capacity(*) for heating/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7 ℃	Pdh	2,151	kW	Tj = -7 ℃	COPd	2,58	-
Tj = 2 ℃	Pdh	1,351	kW	Tj = 2 ℃	COPd	3,82	-
Tj = 7 ℃	Pdh	0,91	kW	Tj = 7 ℃	COPd	4,67	-
Tj = 12 ℃	Pdh	1,011	kW	Tj = 12 ℃	COPd	5,78	-
Tj = bivalent temperature	Pdh	2,151	kW	Tj = bivalent temperature	COPd	2,58	-
Tj = operating limit	Pdh	2,268	kW	Tj = operating limit	COPd	1,99	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 ℃	Pdh	x,x	kW	Tj = 2 ℃	COPd	x,x	-
Tj = 7 ℃	Pdh	x,x	kW	Tj = 7 ℃	COPd	x,x	-
Tj = 12 ℃	Pdh	x,x	kW	Tj = 12 ℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-

MUPR-09-H4							
Declared capacity(*) for heating/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	℃	heating/Average	Tol	-15	℃
heating/Warmer	Tbiv	x	℃	heating/Warmer	Tol	x	℃
heating/Colder	Tbiv	x	℃	heating/Colder	Tol	x	℃
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	heating/Average	EERcyc	x,x	-
for heating	Pcych	x,x	kW	heating/Warmer	COPcyc	x,x	-
Degradation co-efficient cooling	Cdc	0,25	-	Degradation co-efficient heating	Cdc	0,25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	0,001	kW	cooling	Q_{CE}	162	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	884	kWh/a
thermostat-off mode	Pto	0,021	kW	heating/Warmer	Qhe	x	kWh/a
crankcase heater mode	Pck	0	kW	heating/Colder	Qhe	x	kWh/a
Capacity control(indicate one of the options)				Other items			
Item	symbol	value	unit	Item	symbol	value	unit
fixed		Y/N		Sound power level (indoor/outdoor)	LWA	55/63	dB(A)
staged		Y/N		Global warning potential	GWP	1975	$kgCO_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	620/1800	m^3/h

2.2. MUPR-12-H4

MUPR-12-H4							
Function (indicate if present)				if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling		Y		Average (mandatory)		Y	
heating		Y		Warmer (if designated)		N	
				Colder (if designated)		N	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	3,5	kW	cooling	SEER	5,6	-
heating/Average	Pdesignh	2,6	kW	heating/Average	SCOP/A	3,8	-
heating/Warmer	Pdesignh	x,x	kW	heating/Warmer	SCOP/W	x,x	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19) ℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19) ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 ℃	Pdc	3,518	kW	Tj = 35 ℃	EERd	2,96	-
Tj = 30 ℃	Pdc	2,455	kW	Tj = 30 ℃	EERd	4,27	-
Tj = 25 ℃	Pdc	1,617	kW	Tj = 25 ℃	EERd	6,79	-
Tj = 20 ℃	Pdc	1,413	kW	Tj = 20 ℃	EERd	10,17	-
Declared capacity(*) for heating/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7 ℃	Pdh	2,329	kW	Tj = -7 ℃	COPd	2,37	-
Tj = 2 ℃	Pdh	1,454	kW	Tj = 2 ℃	COPd	3,92	-
Tj = 7 ℃	Pdh	1,001	kW	Tj = 7 ℃	COPd	4,81	-
Tj = 12 ℃	Pdh	0,983	kW	Tj = 12 ℃	COPd	5,55	-
Tj = bivalent temperature	Pdh	2,329	kW	Tj = bivalent temperature	COPd	2,37	-
Tj = operating limit	Pdh	2,275	kW	Tj = operating limit	COPd	2,01	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 ℃	Pdh	x,x	kW	Tj = 2 ℃	COPd	x,x	-
Tj = 7 ℃	Pdh	x,x	kW	Tj = 7 ℃	COPd	x,x	-
Tj = 12 ℃	Pdh	x,x	kW	Tj = 12 ℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-

MUPR-12-H4							
Declared capacity(*) for heating/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	℃	heating/Average	Tol	-15	℃
heating/Warmer	Tbiv	x	℃	heating/Warmer	Tol	x	℃
heating/Colder	Tbiv	x	℃	heating/Colder	Tol	x	℃
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	heating/Average	EERcyc	x,x	-
for heating	Pcych	x,x	kW	heating/Warmer	COPcyc	x,x	-
Degradation co-efficient cooling	Cdc	0,25	-	Degradation co-efficient heating	Cdc	0,25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	0,001	kW	cooling	Q_{CE}	218	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	957	kWh/a
thermostat-off mode	Pto	0,021	kW	heating/Warmer	Qhe	x	kWh/a
crankcase heater mode	Pck	0	kW	heating/Colder	Qhe	x	kWh/a
Capacity control(indicate one of the options)				Other items			
Item	symbol	value	unit	Item	symbol	value	unit
fixed		Y/N		Sound power level (indoor/outdoor)	LWA	56/63	dB(A)
staged		Y/N		Global warning potential	GWP	1975	$kgCO_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	620/1800	m^3/h

2.3. MUPR-18-H4

MUPR-18-H4							
Function (indicate if present)				if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling		Y		Average (mandatory)		Y	
heating		Y		Warmer (if designated)		N	
				Colder (if designated)		N	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	5,1	kW	cooling	SEER	6,1	-
heating/Average	Pdesignh	4,8	kW	heating/Average	SCOP/A	3,8	-
heating/Warmer	Pdesignh	x,x	kW	heating/Warmer	SCOP/W	x,x	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19) ℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19) ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 ℃	Pdc	5,128	kW	Tj = 35 ℃	EERd	3,01	-
Tj = 30 ℃	Pdc	3,781	kW	Tj = 30 ℃	EERd	4,42	-
Tj = 25 ℃	Pdc	2,430	kW	Tj = 25 ℃	EERd	7,17	-
Tj = 20 ℃	Pdc	1,905	kW	Tj = 20 ℃	EERd	12,13	-
Declared capacity(*) for heating/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7 ℃	Pdh	3,899	kW	Tj = -7 ℃	COPd	2,45	-
Tj = 2 ℃	Pdh	2,719	kW	Tj = 2 ℃	COPd	3,67	-
Tj = 7 ℃	Pdh	1,687	kW	Tj = 7 ℃	COPd	5,32	-
Tj = 12 ℃	Pdh	1,277	kW	Tj = 12 ℃	COPd	6,69	-
Tj = bivalent temperature	Pdh	4,071	kW	Tj = bivalent temperature	COPd	2,05	-
Tj = operating limit	Pdh	3,222	kW	Tj = operating limit	COPd	2,23	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 ℃	Pdh	x,x	kW	Tj = 2 ℃	COPd	x,x	-
Tj = 7 ℃	Pdh	x,x	kW	Tj = 7 ℃	COPd	x,x	-
Tj = 12 ℃	Pdh	x,x	kW	Tj = 12 ℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-

MUPR-18-H4							
Declared capacity(*) for heating/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-6	℃	heating/Average	Tol	-15	℃
heating/Warmer	Tbiv	x	℃	heating/Warmer	Tol	x	℃
heating/Colder	Tbiv	x	℃	heating/Colder	Tol	x	℃
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	heating/Average	EERcyc	x,x	-
for heating	Pcych	x,x	kW	heating/Warmer	COPcyc	x,x	-
Degradation co-efficient cooling	Cdc	0,25	-	Degradation co-efficient heating	Cdc	0,25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	0,001	kW	cooling	Q_{CE}	292	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	1768	kWh/a
thermostat-off mode	Pto	0,021	kW	heating/Warmer	Qhe	x	kWh/a
crankcase heater mode	Pck	0	kW	heating/Colder	Qhe	x	kWh/a
Capacity control(indicate one of the options)				Other items			
Item	symbol	value	unit	Item	symbol	value	unit
fixed		Y/N		Sound power level (indoor/outdoor)	LWA	56/65	dB(A)
staged		Y/N		Global warning potential	GWP	1975	$kgCO_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	1100/2200	m^3/h

2.4. MUPR-24-H4

MUPR-24-H4							
Function (indicate if present)				if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling		Y		Average (mandatory)		Y	
heating		Y		Warmer (if designated)		N	
				Colder (if designated)		N	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	6,4	kW	cooling	SEER	5,9	-
heating/Average	Pdesignh	5,5	kW	heating/Average	SCOP/A	3,8	-
heating/Warmer	Pdesignh	x,x	kW	heating/Warmer	SCOP/W	x,x	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19) ℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19) ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 ℃	Pdc	6,446	kW	Tj = 35 ℃	EERd	2,90	-
Tj = 30 ℃	Pdc	4,412	kW	Tj = 30 ℃	EERd	4,64	-
Tj = 25 ℃	Pdc	3,085	kW	Tj = 25 ℃	EERd	6,92	-
Tj = 20 ℃	Pdc	2,185	kW	Tj = 20 ℃	EERd	10,71	-
Declared capacity(*) for heating/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7 ℃	Pdh	4,870	kW	Tj = -7 ℃	COPd	2,35	-
Tj = 2 ℃	Pdh	3,212	kW	Tj = 2 ℃	COPd	3,82	-
Tj = 7 ℃	Pdh	2,017	kW	Tj = 7 ℃	COPd	5,12	-
Tj = 12 ℃	Pdh	1,601	kW	Tj = 12 ℃	COPd	5,46	-
Tj = bivalent temperature	Pdh	4,870	kW	Tj = bivalent temperature	COPd	2,35	-
Tj = operating limit	Pdh	3,957	kW	Tj = operating limit	COPd	2,09	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 ℃	Pdh	x,x	kW	Tj = 2 ℃	COPd	x,x	-
Tj = 7 ℃	Pdh	x,x	kW	Tj = 7 ℃	COPd	x,x	-
Tj = 12 ℃	Pdh	x,x	kW	Tj = 12 ℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-

MUPR-24-H4							
Declared capacity(*) for heating/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 ℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	℃	heating/Average	Tol	-15	℃
heating/Warmer	Tbiv	x	℃	heating/Warmer	Tol	x	℃
heating/Colder	Tbiv	x	℃	heating/Colder	Tol	x	℃
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	heating/Average	EERcyc	x,x	-
for heating	Pcych	x,x	kW	heating/Warmer	COPcyc	x,x	-
Degradation co-efficient cooling	Cdc	0,25	-	Degradation co-efficient heating	Cdc	0,25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	0,001	kW	cooling	Q_{CE}	379	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	2026	kWh/a
thermostat-off mode	Pto	0,038	kW	heating/Warmer	Qhe	x	kWh/a
crankcase heater mode	Pck	0	kW	heating/Colder	Qhe	x	kWh/a
Capacity control(indicate one of the options)				Other items			
Item	symbol	value	unit	Item	symbol	value	unit
fixed		Y/N		Sound power level (indoor/outdoor)	LWA	63/67	dB(A)
staged		Y/N		Global warning potential	GWP	1975	$kgCO_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	1180/2700	m^3/h

MUNDOCLIMA®

ASK FOR MORE INFORMATION:
Phone: 93 446 27 80 - Fax: 93 456 90 32
eMail: mundoclima@salvadorescoda.com

TECHNICAL ASSISTANCE:
Phone: 93 652 53 57 - Fax: 93 635 45 08