MUND CLIMA®

INVERTER SERIE H3
Tables of seasonal energy consumption and efficiency
MUPR-H3
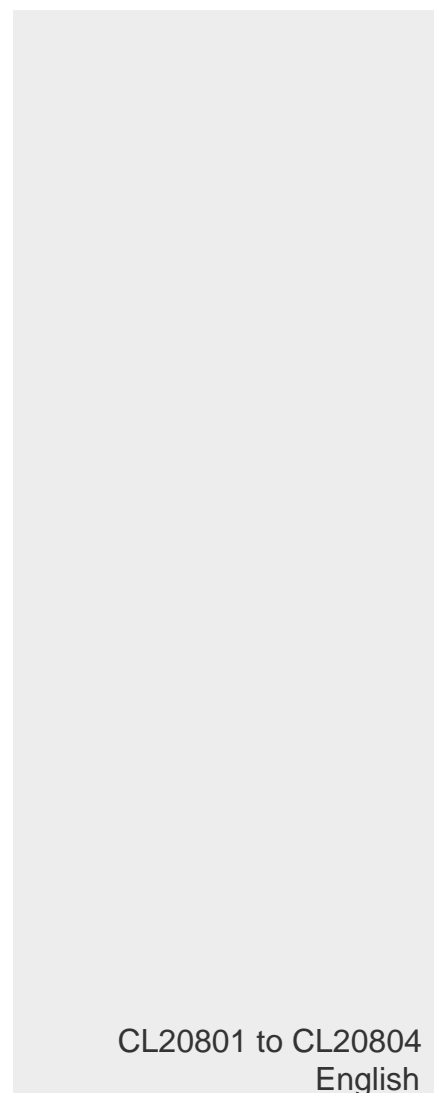
CONTENTS

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-H3

MUPR-09-H3							
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	2,7	kW	cooling	SEER	5,5	-
heating/Average	Pdesignh	2,8	kW	heating/Average	SCOP/A	3,4	-
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	2,700	kW	Tj = 35℃	EERd	3,05	-
Tj = 30℃	Pdc	1,772	kW	Tj = 30℃	EERd	4,46	-
Tj = 25℃	Pdc	1,255	kW	Tj = 25℃	EERd	6,34	-
Tj = 20℃	Pdc	1,082	kW	Tj = 20℃	EERd	8,58	-
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	2,455	kW	Tj = -7℃	COPd	1,95	-
Tj = 2℃	Pdh	1,57	kW	Tj = 2℃	COPd	3,43	-
Tj = 7℃	Pdh	1,013	kW	Tj = 7℃	COPd	4,73	-
Tj = 12℃	Pdh	0,975	kW	Tj = 12℃	COPd	5,70	-
Tj = bivalent temperature	Pdh	2,455	kW	Tj = bivalent temperature	COPd	1,95	-
Tj = operating limit	Pdh	2,104	kW	Tj = operating limit	COPd	1,90	-
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-H3							
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}	171	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	1152	kWh/a
thermostat-off mode	Pto	0,026	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	53/63	dB(A)
staged		Y/N		Global warning potential	GWP	1975	kgCO$_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	400/1800	m^3/h

2.2. MUPR-12-H3

MUPR-12-H3							
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	3,2	kW	cooling	SEER	5,4	-
heating/Average	Pdesignh	3,4	kW	heating/Average	SCOP/A	3,4	-
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	3,200	kW	Tj = 35 ℃	EERd	3,10	-
Tj = 30 ℃	Pdc	2,234	kW	Tj = 30 ℃	EERd	4,37	-
Tj = 25 ℃	Pdc	1,457	kW	Tj = 25 ℃	EERd	6,12	-
Tj = 20 ℃	Pdc	1,135	kW	Tj = 20 ℃	EERd	8,05	-
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	2,658	kW	Tj = -7 ℃	COPd	2,10	-
Tj = 2 ℃	Pdh	1,964	kW	Tj = 2 ℃	COPd	3,22	-
Tj = 7 ℃	Pdh	1,227	kW	Tj = 7 ℃	COPd	5,18	-
Tj = 12 ℃	Pdh	1,016	kW	Tj = 12 ℃	COPd	5,77	-
Tj = bivalent temperature	Pdh	2,695	kW	Tj = bivalent temperature	COPd	2,11	-
Tj = operating limit	Pdh	2,469	kW	Tj = operating limit	COPd	2,00	-
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-H3							
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	-5	℃	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}	207	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	1400	kWh/a
thermostat-off mode	Pto	0,036	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	54/63	dB(A)
staged		Y/N		Global warning potential	GWP	1975	$kgCO_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	550/1800	m^3/h

2.3. MUPR-18-H3

MUPR-18-H3							
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	5,0	kW	cooling	SEER	5,6	-
heating/Average	Pdesignh	5,1	kW	heating/Average	SCOP/A	3,4	-
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	5,000	kW	Tj = 35 ℃	EERd	2,80	-
Tj = 30 ℃	Pdc	3,523	kW	Tj = 30 ℃	EERd	4,58	-
Tj = 25 ℃	Pdc	2,273	kW	Tj = 25 ℃	EERd	6,94	-
Tj = 20 ℃	Pdc	1,633	kW	Tj = 20 ℃	EERd	9,24	-
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	4,054	kW	Tj = -7 ℃	COPd	2,30	-
Tj = 2 ℃	Pdh	2,794	kW	Tj = 2 ℃	COPd	3,14	-
Tj = 7 ℃	Pdh	1,685	kW	Tj = 7 ℃	COPd	4,87	-
Tj = 12 ℃	Pdh	1,357	kW	Tj = 12 ℃	COPd	5,26	-
Tj = bivalent temperature	Pdh	4,110	kW	Tj = bivalent temperature	COPd	2,25	-
Tj = operating limit	Pdh	3,179	kW	Tj = operating limit	COPd	2,08	-
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-H3							
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}	312	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	2100	kWh/a
thermostat-off mode	Pto	0,051	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)	-	750/2200	m^3/h

2.4. MUPR-24-H3

MUPR-24-H3							
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	6,6	kW	cooling	SEER	5,5	-
heating/Average	Pdesignh	7,0	kW	heating/Average	SCOP/A	3,5	-
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	6,600	kW	Tj = 35 ℃	EERd	2,88	-
Tj = 30 ℃	Pdc	4,858	kW	Tj = 30 ℃	EERd	4,18	-
Tj = 25 ℃	Pdc	3,269	kW	Tj = 25 ℃	EERd	6,38	-
Tj = 20 ℃	Pdc	2,930	kW	Tj = 20 ℃	EERd	8,88	-
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	6,027	kW	Tj = -7 ℃	COPd	2,14	-
Tj = 2 ℃	Pdh	3,961	kW	Tj = 2 ℃	COPd	3,16	-
Tj = 7 ℃	Pdh	2,569	kW	Tj = 7 ℃	COPd	4,90	-
Tj = 12 ℃	Pdh	1,882	kW	Tj = 12 ℃	COPd	5,74	-
Tj = bivalent temperature	Pdh	6,027	kW	Tj = bivalent temperature	COPd	2,14	-
Tj = operating limit	Pdh	3,070	kW	Tj = operating limit	COPd	1,63	-
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-H3							
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}	420	kWh/a
standby mode	Psb	0,001	kW	heating/Average	Qhe	2800	kWh/a
thermostat-off mode	Pto	0,071	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	63/66	dB(A)
staged		Y/N		Global warning potential	GWP	1975	$kgCO_2$ eq
variable		Y		Rated air flow (indoor/outdoor)	-	1000/2700	m^3/h

MUND CLIMA®

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