Information requirements (air-to-air air conditioners)

Madal(a);CUD160DUS/A T CUD				uttoners)							
Model(s):GUD160PHS/A-T、GUD Outdoor side heat exchanger of air	160w/Nr	IA-X									
conditioner	air										
Indoor side heat exchanger of air conditioner	air										
Туре	compressor driven vapour compression										
If applicable: driver of compressor				electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	16.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	255.1	%				
• • • •	l cooling capacity for part load at given outdoor tures T _j and indoor 27°/19 °C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j					
$T_j = +35 \ ^{\circ}C$	Pdc	16.27	kW	$T_j = +35 \ ^{\circ}C$	EER _d	3.02	-				
$T_j = +30 \ ^{\circ}C$	Pdc	11.38	kW	$T_j = +30 \ ^{\circ}C$	EER _d	4.95	-				
$T_j = +25 \ ^{\circ}C$	Pdc	7.22	kW	$T_j = + 25 \ ^{\circ}C$	EER _d	7.48	-				
$T_j = + 20 \ ^{\circ}C$	Pdc	4.68	kW	$T_j = + 20 \ ^\circ C$	EER _d	10.88	-				
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25					-				
Ро	wer cons	umption i	n modes o	ther than 'active mo	de'						
Off mode	P _{OFF}	0.0050	kW	Crankcase heater mode	P _{CK}	0.0000	kW				
Thermostat-off mode	P _{TO}	0.0170	kW	Standby mode	$\mathbf{P}_{\mathbf{SB}}$	0.0050	kW				
			Other iten	ns							
Capacity control		variable	;								
Sound power level, indoor/outdoor	L _{WA}	66.2/70. 5	dB	For air-to-air air							
If engine driven: Emissions of nitrogen oxides	NOx(**)	/	mg/kWh fuel input GCV	conditioner: air	_	6600	m ³ /h				
GWP of the refrigerant	6	75	kg CO ₂ eq (100 years)								
Contact details: +420 532 197 950,	info@gre	eczech.cz	Z	Name of manufactu Košuličova 778/39			,				
(*) If C_{dc} is not determined by measure (**) From 26 September 2018. Where information relates to multi-subasis of the performance of the outdot	plit air co	onditioner	s, the test	result and performar	nce data may be	e obtained of	n the				

importer.

Information requirements (heat pump)

		(neat	pump)						
Model(s):GUD160PHS/A-T、GUD160W/	NhA-X								
Outdoor side heat exchanger of heat pump	air								
Indoor side heat exchanger of heat pump	air								
Indication if the heater is equipped with a supplementary heater	no								
If applicable: driver of compressor	electric motor								
Parameters declared for	Average climate condition								
Item	symbol	value	unit	Item	symbol	value	unit		
Rated heating capacity	P _{rated,h}	17.0	kW	Seasonal space heating energy efficiency	η _{s, h}	143.9	%		
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Ti			Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j						
$T_j = -7 \ ^{\circ}C$	Pdh	10.89	kW	$T_j = -7 \ ^\circ C$	COP _d	2.29	-		
$T_j = +2 \ ^{\circ}C$	Pdh	6.65	kW	$T_j = +2 \ ^\circ C$	COP _d	3.49	-		
$T_j = +7 \ ^{\circ}C$	Pdh	4.51	kW	$T_j = +7 \ ^{\circ}C$	COP _d	5.11	-		
$T_j = +12 \text{ °C}$	Pdh	3.33	kW	$T_j = +12 \ ^{\circ}C$	COP _d	6.29	-		
$T_{biv} = bivalent temperature$	Pdh	10.89	kW	T _{biv} = bivalent temperature	COP _d	2.29	-		
T _{OL} = operation limit	Pdh	10.42	kW	T_{OL} = operation limit	COP _d	2.30	-		
For air-to-water heat pumps: $Tj = -15$ °C (if TOL < -20 °C)	Pdh	NA	kW	For water-to-air heat pumps: $Tj = -15$ °C (if TOL < -20 °C)	COP _d	NA	-		
Bivalent temperature	$T_{\rm biv}$	-7.00	°C	For water-to-air heat pumps: Operation limit temperature	T _{ol}	-10.00	°C		
Degradation co-efficient heat pumps(**)	C _{dh}	0.25	_						
Power consumption in modes other	than 'act	tive mod	e'	Supple	mentary he	ater			
Off mode	P _{OFF}	0.0050	kW	Back-up heating capacity (*)	elbu	NA	kW		
Thermostat-off mode	P _{TO}	0.0244	kW	Type of energy input					
Crankcase heater mode	P _{CK}	0.0000	kW	Standby mode	P _{SB}	0.0050	kW		
		Othe	r items						
Capacity control		variable	;	For air-to-air heat					
Sound power level, indoor/outdoor measured	L _{WA}	67.6/72 .5	dB	pumps: air flow rate, outdoor measured	—	6600	m ³ /h		
Emissions of nitrogen oxides (if applicable)	NOx(* **)	/	mg/kW h input GCV	For water/brine-to- air heat pumps: Rated brine or water		/	m ³ /h		
GWP of the refrigerant	6'	75	kg CO2 eq (100 years)	flow rate, outdoor side heat exchanger	_	/	III /N		
Contact details: +420 532 197 950, info@;	Name of manufacture GREE Czech & Slova Košuličova 778/39, B	k s.r.o.,	, Czech Re	epublic					
(*)									

(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018.

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements (air-to-air air conditioners)

Model(s):GUD160T/A-T、GUD16)W/NhA-									
Outdoor side heat exchanger of air		<u></u>		oir						
conditioner	air									
Indoor side heat exchanger of air conditioner	air									
Туре	compressor driven vapour compression									
If applicable: driver of compressor				electric moto	or					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	14.5	kW	Seasonal space cooling energy efficiency	$\eta_{\rm s,c}$	241.7	%			
Declared cooling capacity for part lot temperatures T _j and indoor 27°/19 °C	-		r	Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j						
$T_j = +35 \ ^{\circ}C$	Pdc	14.51	kW	$T_j = +35 \ ^{\circ}C$	EER _d	2.66	-			
$T_j = +30 \ ^{\circ}C$	Pdc	10.70	kW	$T_j = +30 \ ^{\circ}C$	EER _d	4.68	-			
$T_j = +25 \ ^{\circ}C$	Pdc	6.85	kW	$T_j = + 25 \ ^{\circ}C$	EER _d	6.97	-			
$T_j = +20 \ ^{\circ}C$	Pdc	3.98	kW	$T_j = + 20 \ ^\circ C$	EER _d	11.08	-			
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25					-			
Po	ower cons	umption i	n modes o	ther than 'active mo	de'					
Off mode	P _{OFF}	0.0027	kW	Crankcase heater mode	P _{CK}	0.0000	kW			
Thermostat-off mode	P _{TO}	0.0180	kW	Standby mode	\mathbf{P}_{SB}	0.0027	kW			
			Other iten	18						
Capacity control		variable	;							
Sound power level, indoor/outdoor	L _{WA}	63.2/70. 5	dB	For air-to-air air						
If engine driven: Emissions of nitrogen oxides	NOx(**)	/	mg/kWh fuel input GCV	conditioner: air	_	6600	m ³ /h			
GWP of the refrigerant	6	75	kg CO ₂ eq (100 years)							
Contact details: +420 532 197 950,	info@gre	eczech.cz	I	Name of manufactu Košuličova 778/39						
(*) If C_{dc} is not determined by measure (**) From 26 September 2018. Where information relates to multi-subasis of the performance of the outd	plit air co	nditioner	s, the test	result and performar	ice data may be	e obtained o	n the			

importer.

Information requirements (heat pump)

		(neat	pump)						
Model(s):GUD160T/A-T、GUD160W/Nh	A-X								
Outdoor side heat exchanger of heat pump	air								
Indoor side heat exchanger of heat pump	air								
Indication if the heater is equipped with a supplementary heater	no								
If applicable: driver of compressor	electric motor								
Parameters declared for	Average climate condition								
Item	symbol	value	unit	Item	symbol	value	unit		
Rated heating capacity	P _{rated,h}	17.0	kW	Seasonal space heating energy efficiency	η _{s, h}	145.6	%		
Declared heating capacity for part load at indoor temperature 20 °C			Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j						
$T_j = -7 \ ^\circ C$	Pdh	10.32	kW	$T_j = -7 °C$	COP _d	2.48	-		
$T_j = +2 \ ^{\circ}C$	Pdh	6.27	kW	$T_j = +2 \ ^{\circ}C$	COP _d	3.66	-		
$T_j = +7 \ ^{\circ}C$	Pdh	4.09	kW	$T_j = +7 \ ^{\circ}C$	COP _d	4.80	-		
$T_j = +12 \ ^{\circ}C$	Pdh	3.06	kW	$T_j = +12 \ ^{\circ}C$	COP _d	5.31	-		
$T_{biv} = bivalent temperature$	Pdh	10.32	kW	T _{biv} = bivalent temperature	COP _d	2.48	-		
T _{OL} = operation limit	Pdh	10.00	kW	T_{OL} = operation limit	COP _d	2.25	-		
For air-to-water heat pumps: $Tj = -15$ °C (if TOL < -20 °C)	Pdh	NA	kW	For water-to-air heat pumps: $Tj = -15 \ ^{\circ}C$ (if TOL < - 20 $\ ^{\circ}C$)	COP _d	NA	-		
Bivalent temperature	T_{biv}	-7.00	°C	For water-to-air heat pumps: Operation limit temperature	T _{ol}	-10.00	°C		
Degradation co-efficient heat pumps(**)	C _{dh}	0.25	_						
Power consumption in modes other	than 'act	tive mod	e'	Supple	ementary he	ater			
Off mode	P _{OFF}	0.0027	kW	Back-up heating capacity (*)	elbu	NA	kW		
Thermostat-off mode	P _{TO}	0.0247	kW	Type of energy input		8			
Crankcase heater mode	P _{CK}	0.0000	kW	Standby mode	P _{SB}	0.0027	kW		
		Othe	r items	-			<u>.</u>		
Capacity control		variable	:	For air-to-air heat					
Sound power level, indoor/outdoor measured	L _{WA}	63.4/72 .5	dB	pumps: air flow rate, outdoor measured	_	6600	m ³ /h		
Emissions of nitrogen oxides (if applicable)	NOx(* **)	/	mg/kW h input GCV	For water/brine-to- air heat pumps: Rated brine or water		/	m ³ /h		
GWP of the refrigerant		75	kg CO2 eq (100 years)	flow rate, outdoor side heat exchanger		,	111 /11		
Contact details: +420 532 197 950, info@;	Name of manufacture GREE Czech & Slova Košuličova 778/39, B	k s.r.o.,	, Czech Re	epublic					
(*)									

(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018.

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements (air-to-air air conditioners)

Model(s):GUD160ZD/A-T、GUD1	60W/NhA	A-X									
Outdoor side heat exchanger of air conditioner	air										
Indoor side heat exchanger of air conditioner	air										
Туре	compressor driven vapour compression										
If applicable: driver of compressor				electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	16.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	258.7	%				
	Declared cooling capacity for part load at given outdoor emperatures T_j and indoor 27°/19 °C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j					
$T_j = +35 \ ^{\circ}C$	Pdc	16.02	kW	$T_j = +35 \ ^{\circ}C$	EER _d	2.97	-				
$T_j = +30 \ ^{\circ}C$	Pdc	11.37	kW	$T_j = +30 \ ^\circ C$	EER _d	5.00	-				
$T_j = +25 \ ^{\circ}C$	Pdc	7.43	kW	$T_j = +25 \ ^\circ C$	EER _d	7.53	-				
$T_j = +20 \ ^{\circ}C$	Pdc	4.54	kW	$T_j = + 20 \ ^\circ C$	EER _d	11.35	-				
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25					-				
Ро	wer cons	umption i	n modes o	ther than 'active mo	de'						
Off mode	P _{OFF}	0.0027	kW	Crankcase heater mode	P _{CK}	0.0000	kW				
Thermostat-off mode	P _{TO}	0.0180	kW	Standby mode	P _{SB}	0.0027	kW				
			Other iten	18							
Capacity control		variable	;								
Sound power level, indoor/outdoor	L _{WA}	65.8/70. 5	dB	For air-to-air air	_	6600					
If engine driven: Emissions of nitrogen oxides	NOx(**)	/	mg/kWh fuel input GCV	conditioner: air			m ³ /h				
GWP of the refrigerant	6	75	kg CO ₂ eq (100 years)								
Contact details: +420 532 197 950,	info@gre	eczech.cz	Z	Name of manufactu Košuličova 778/39			,				
(*) If C _{dc} is not determined by measure (**) From 26 September 2018. Where information relates to multi-subasis of the performance of the outdown.	plit air co	onditioner	s, the test	result and performar	nce data may be	e obtained o	n the				

importer.

Information requirements (heat pump)

NhA-X								
air								
air								
по								
electric motor								
Average climate condition								
symeor	varae	unit		symeor	value	unit		
P _{rated,h}	17.0	kW	heating energy efficiency	$\eta_{\rm s,h}$	152.3	%		
Declared heating capacity for part load at indoor temperature 20 °C				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j				
Pdh	11.02	kW	$T_j = -7 \ ^\circ C$	COP _d	2.48	-		
Pdh	6.65	kW	$T_j = +2 \ ^{\circ}C$	COP _d	3.74	-		
Pdh	4.44	kW	$T_j = +7 \ ^{\circ}C$	COP _d	5.22	-		
Pdh	3.38	kW	$T_j = +12 \ ^{\circ}C$	COP _d	6.54	-		
Pdh	11.02	kW	T _{biv} = bivalent temperature	COP _d	2.48	-		
Pdh	10.09	kW	T _{OL} = operation limit	COP _d	2.34	-		
Pdh	NA	kW	For water-to-air heat pumps: $Tj = -15 \ ^{\circ}C$ (if TOL < -20 $\ ^{\circ}C$)	COP _d	NA	-		
T _{biv}	-7.00	°C	For water-to-air heat pumps: Operation limit temperature	T _{ol}	-10.00	°C		
C _{dh}	0.25	_						
than 'act	tive mod	e'	Supple	ementary he	ater			
P _{OFF}	0.0027	kW	Back-up heating capacity (*)	elbu	NA	kW		
P _{TO}	0.0247	kW	Type of energy input					
	0.0000	kW		P _{SB}	0.0027	kW		
	Othe	r items		~-	<u>.</u>			
	variable	;	For air-to-air heat					
L _{WA}			pumps: air flow rate, outdoor measured	_	6600	m ³ /h		
NOx(* **)	/	mg/kW h input GCV	For water/brine-to- air heat pumps:		1	m ³ /h		
6	75	kg CO2 eq (100 years)	flow rate, outdoor side heat exchanger	_	/	m´/h		
Contact details: +420 532 197 950, info@greeczech.cz (*)					, Czech Re	epublic		
	Image: symbol symbol Prated,h Prated,h Pdh PorF Pro Ital Ital	Image: symbol value symbol value Prated,h 17.0 Pdh 11.02 Pdh 6.65 Pdh 4.44 Pdh 3.38 Pdh 11.02 Pdh 10.09 Pdh 10.09 Pdh 0.027 Pdh 0.25 than 'active mode PoFF 0.0027 Pro 0.0247 PocK 0.0000 Variable 1.5 NOx(* / NOx(* / Solor /	Image: symbol value unit symbol value unit Prated,h 17.0 kW ndoor temperature 20 °C Pdh 11.02 kW Pdh 6.65 kW Pdh 3.38 kW Pdh 11.02 kW Pdh 4.44 kW Pdh 11.02 kW Pdh 10.09 kW Pdh 10.09 kW Pdh 10.09 kW Pdh 0.00 kW Pdh 0.00 c Tbiv -7.00 °C Cdh 0.25 than 'active mode' - - PoFF 0.0027 kW PoFF 0.0027 kW PCK 0.0000 kW Variable - - LwA 65.1/72 dB NOx(* / mg/kW **) / kg CO2 eq(100) years) - <td>airairairairairnoelectric motorAverage climate condsymbol value unit ItemSeasonal spaceheating energy efficiencyndoor temperature 20 °CDeclared coefficient of utilisation efficiency/a load at given outdoorPdh11.02kWTj = -7 °CPdh6.65kWTj = + 12 °CPdh3.38kWTj = + 12 °CPdh11.02kWToil = operation limit temperaturePdh10.09kWToil = operation limit temperaturePdh10.09kWFor water-to-air heat pumps: Tj = - 15 °C (if TOL < - 20 °C)</td> Tbiv-7.00°CFor water-to-air heat pumps: Operation limit temperatureCdh0.25than 'active mode'SupplePoFF0.0027kWBack-up heating capacity (*)Pro0.0247kWType of energy inputPCK0.0000kWStandby modeOther itemsVariableFor air-to-air heat pumps: air flow rate, outdoor measuredNOx(* **)/mg/kW h input GCV eq (100 years)For water/brine-to- air heat pumps: Rated brine or water flow rate, outdoor side heat exchangergreeczech.czName of manufacture GREE Czech & Slov	airairairairairnoelectric motorAverage climate condsymbol value unit ItemSeasonal spaceheating energy efficiencyndoor temperature 20 °CDeclared coefficient of utilisation efficiency/a load at given outdoorPdh11.02kWTj = -7 °CPdh6.65kWTj = + 12 °CPdh3.38kWTj = + 12 °CPdh11.02kWToil = operation limit temperaturePdh10.09kWToil = operation limit temperaturePdh10.09kWFor water-to-air heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	airairairnoelectric motorAverage climate conditionsymbolvalueunitItem valuePrated.h17.0kWSeasonal spaceheating energyndoor temperature20 °CDeclared coefficient of performar utilisation efficiency/auxiliary en load at given outdoor temperaturePdh11.02kWTj = -7 °CCOPdPdh6.65kWTj = + 2 °CCOPdPdh6.65kWTj = + 12 °CCOPdPdh11.02kWToL = operation limitCOPdPdh11.02kWToL = operation limitCOPdPdh10.09kWToL = operation limitCOPdPdh10.09kWFor water-to-air heat pumps: Tj = -15 °CCOPdPdhNAkWBack-up heating capacity (*)elbuPoFF0.0027kWBack-up heating capacity (*)elbuPoFF0.0027kWStandby modeP_SBOther itemsVariable For water-to-air heat pumps: air flow rate, outdoor measuredNOx(* **)/mg/kW h input GCVFor water-to-air heat pumps: air flow rate, outdoor measuredNOx(** (**) </td <td>airairairairairnoelectric motorsymbol value unitItem symbol valueseasonal spaceheating energy$\eta_{s,h}$IS2.3Prated.h17.0kWSeasonal spaceheating energy$\eta_{s,h}$IS2.3Declared coefficient of performance or gasutilisation efficiency/auxiliary energy factorload at given outdoor temperatures TjPdh11.02kWTj = 7 °CCOPd2.48Pdh11.02kWTj = 12 °CCOPd5.22Pdh11.02kWTj = 12 °CCOPd2.48Pdh10.09kWToj = operation limitCOPd2.48PdhNAkWPoj = 0.0027KWToj con colspan="4">COPd<!--</td--></td>	airairairairairnoelectric motorsymbol value unitItem symbol valueseasonal spaceheating energy $\eta_{s,h}$ IS2.3Prated.h17.0kWSeasonal spaceheating energy $\eta_{s,h}$ IS2.3Declared coefficient of performance or gasutilisation efficiency/auxiliary energy factorload at given outdoor temperatures TjPdh11.02kWTj = 7 °CCOPd2.48Pdh11.02kWTj = 12 °CCOPd5.22Pdh11.02kWTj = 12 °CCOPd2.48Pdh10.09kWToj = operation limitCOPd2.48PdhNAkWPoj = 0.0027KWToj con colspan="4">COPd </td		

(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018.

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.