

Technical documentation in accordance with Commission Delegated Regulation (EU) No. 813/2013 of August 2, 2013 supplementing Directive 2009/125/EC of the European Parliament and of the Council.

Technical parameters			
Model:	HTi20/8		
Air-to-water heat pump:	Yes		
Water-to-water heat pump:	No		
Low-temperature heat pump:	No		
Equipped with an additional heater:	No		
Multifunctional heat pump heater:	No		
Declared climatic conditions:	Temperate climate		
Parameters are given for applications in:	Low temperatures		

Position	Symbol	Value	Unit
Rated thermal power (*)	Prated	8	kW
Declared heating capacity at partial load at room t	emperature 20°C an	d outdoor tem	perature Tj
Tj = -7°C	Pdh	5,45	kW
Tj = 2°C	Pdh	3,32	kW
Tj = 7°C	Pdh	3,68	kW
Tj = 12°C	Pdh	2,75	kW
Tj = bivalent temperature	Pdh	5,45	kW
Tj = limiting operating temperature	Pdh	5,03	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Divalent temperature	Tbiv	-7	°C
Performance during the cycle interval	Pcych	-	kW
Loss ratio (**)	Cdh	0,96	-
Power consumption in n	nodes other than ac	tive	
Shutdown mode	Poff	0,014	kW
Standby mode	Psb	0,014	kW
Thermostat off mode	Pto	0,014	kW
Crankcase heater on mode	Pck	0,014	kW

Position	Symbol	Value	Unit
Seasonal energy efficiency of space heating	ns	189,9	%
Declared efficiency index or primary energy consump 20°C and outdoor temperature Tj	otion index at part	load at room	temperature
Tj = -7°C	COPd	3,08	-
Tj = 2°C	COPd	4,71	-
Tj = 7°C	COPd	6,43	-
Tj = 12°C	COPd	7,88	-
Tj = bivalent temperature	COPd	3,08	-
Tj = limiting operating temperature	COPd	2,73	-
For air-to-water heat pumps: Tj = -15°C	COPd	-	-
For air-to-water heat pumps: limit operating temperature	TOL	-10	°C
Performance during the cycle interval	СОРсус	-	-
Operating limit temp. for water heating	WTOL	62	°C
Additional	heater		•
Rated thermal power (*)	Psup	1,13	kW
Type of energy consumed		Electricity	

Other parameters			
Position	Symbol	Value	Unit
Capacity control	Variable performance		
Sound power level Hydraulic module/outdoor unit	LWA	45/64	dB
Annual electricity consumption	QHE	2640	kWh
For air-to-water heat pumps: rated air flow, outdoor unit	-	5000	m³/h
For water-to-water or brine-to-water heat pumps. Rated water or brine flow rate, outdoor unit exchanger	-	-	m³/h

Contact information: HKS Lazar Sp. z o. o Jastrzębie-Zdrój 44-335 ul. Wodzisławska 15B

(*) For heat pump space heaters and multifunctional heat pump heaters, the rated thermal output of Prated is equal to the design load for heating mode Pdesignh, and the rated thermal output of the auxiliary heater Psup is equal to the additional heating capacity for heating mode sup(Tj).

(**) If the Cdh coefficient is not determined by measurement, the loss coefficient takes the default value Cdh=0.9. Parameters are given for medium temperature applications, except for low temperature pumps. For low-temperature heat pumps, parameters are given for low-temperature applications. All parameters are given for moderate climate conditions.

Technical parameters			
Model:	HTi20/8		
Air-to-water heat pump:	Yes		
Water-to-water heat pump:	No		
Low-temperature heat pump:	No		
Equipped with an additional heater:	No		
Multifunctional heat pump heater:	No		
Declared climatic conditions:	Temperate climate		
Parameters are given for applications in:	Medium temperatures		

Position	Symbol	Value	Unit
Rated thermal power (*)	Prated	7	kW
Declared heating capacity at partial load at room temp	erature 20°C ar	nd outdoor terr	iperature Tj
Tj = -7°C	Pdh	4,94	kW
Tj = 2°C	Pdh	3,04	kW
Tj = 7°C	Pdh	3,47	kW
Tj = 12°C	Pdh	4,12	kW
Tj = bivalent temperature	Pdh	4,94	kW
Tj = limiting operating temperature	Pdh	4,23	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Divalent temperature	Tbiv	-7	°C
Performance during the cycle interval	Pcych	-	kW
Loss ratio (**)	Cdh	0,96	-
Power consumption in mode	s other than ac	tive	
Shutdown mode	Poff	0,014	kW
Standby mode	Psb	0,014	kW
Thermostat off mode	Pto	0,014	kW
Crankcase heater on mode	Pck	0,014	kW

Position	Symbol	Value	Unit
Seasonal energy efficiency of space heating	ns	137,2	%
Declared efficiency index or primary energy consum 20°C and outdoor temperature Tj	ption index at part	load at room	temperature
Tj = -7°C	COPd	2,19	-
Tj = 2°C	COPd	3,43	-
Tj = 7°C	COPd	4,61	-
Tj = 12°C	COPd	5,91	-
Tj = bivalent temperature	COPd	2,19	-
Tj = limiting operating temperature	COPd	1,96	-
For air-to-water heat pumps: Tj = -15°C	COPd	-	-
For air-to-water heat pumps: limit operating temperature	TOL	-10	°C
Performance during the cycle interval	СОРсус	-	-
Operating limit temp. for water heating	WTOL	62	°C
Additional	heater		1
Rated thermal power (*)	Psup	1,36	kW
Type of energy consumed		Electricity	

Other parameters			
Position	Symbol	Value	Unit
Capacity control	Variable performance		
Sound power level Hydraulic module/outdoor unit	LWA	45/64	dB
Annual electricity consumption	QHE	3349	kWh
For air-to-water heat pumps: rated air flow, outdoor unit	-	5000	m³/h
For water-to-water or brine-to-water heat pumps. Rated water or brine flow rate, outdoor unit exchanger	-	-	m³/h

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(**) If the Cdh coefficient is not determined by measurement, the loss coefficient takes the default value Cdh=0.9. Parameters are given for medium temperature applications, except for low temperature pumps. For low-temperature heat pumps, parameters are given for low-temperature applications. All parameters are given for moderate climate conditions.