## Fusion GAHP 35A HT technical specification sheet.

Date: October 2021

Gas absorption heat pump			35A HT				
Air-to-water heat pump			Yes	Low-temperature heat pump			No
Water-to-water heat pump			No	Equipped with a supplementary header			No
Brine-to-water heat pump			No	Heat pump combination heater			No
Parameters shall be declared for medium-temperature applicat				,			110
Parameters shall be declared for average,	•			onditions			
Average climate conditions							
Rated heat output	Prated	kW	29.3	Seasonal space heating energy efficiency	ns	%	112
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>J</sub>				Declared coefficient of performance or primary energy ratio for load at indoor temperature 20°C and outdoor temperature T <sub>J</sub>			
$T_J = -7^{\circ}C$	Pdh	kW	25.8	$T_J = -7^{\circ}C$	PERd	%	97.0
$T_J = +2^{\circ}C$	Pdh	kW	15.8	$T_J = +2^{\circ}C$	PERd	%	121.
T」= +7°C	Pdh	kW	10.3	T <sub>J</sub> = +7°C	PERd	%	118.
T <sub>J</sub> = +12°C	Pdh	kW	4.4	$T_J = +12^{\circ}C$	PERd	%	112.
T」= bivalent temperature	Pdh	kW	_	T」= bivalent temperature	PERd	%	_
Annual energy temperature	QHE	GJ	195				
Colder climate conditions							
Rated heat output	Prated	kW	29.2	Seasonal space heating energy efficiency	ns	%	107
Declared capacity for heating for part load at indoor				Declared coefficient of performance or primary energy ratio for			
temperature 20°C and outdoor temperature T <sub>J</sub>				part load at indoor temperature 20°C and outdoor temperature			
$T_J = -7^{\circ}C$	Pdh	kW	17.8	$T_J = -7^{\circ}C$	Pdh	kW	108
$T_J = +2^{\circ}C$	Pdh	kW	10.8	T <sub>J</sub> = +2°C	Pdh	kW	117.
T <sub>J</sub> = +7°C	Pdh	kW	7	T <sub>J</sub> = +7°C	Pdh	kW	112
T <sub>J</sub> = +12°C	Pdh	kW	3.2	T <sub>J</sub> = +12°C	Pdh	kW	110
T」= bivalalent temperature	Pdh	kW	_	T <sub>J</sub> = bivalent temperature	PERd	%	_
T <sub>J</sub> = operation limit temperature	Pdh	kW	29.2	T <sub>J</sub> = operation limit temperature	PERd	%	87.0
For air-to-water heat pumps:	Pdh	kW	23.9	For air-to-water heat pumps:	PERd	%	90.0
TJ = -15°C (if TOL=< -20°C)	Pull	KVV	23.9	$T_J = +15^{\circ}C$ (if TOL=< -20°C)	PERU	70	90.0
Annual energy consumption	QHE	GJ	242				
Warmer climate conditions			'		'		
Rated heat output	Prated	kW	35.9	Seasonal space heating energy efficiency	ns	%	115
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>J</sub>				Declared coefficient of performance or primary ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>J</sub>			
T <sub>J</sub> = +2°C	Pdh	kW	35.9	TJ = +2°C	PERd	kW	118.
T <sub>J</sub> = +7°C	Pdh	kW	23.0	TJ = +7°C	PERd	kW	121.
T <sub>J</sub> = +12°C	Pdh	kW	10.4	TJ = +12°C	PERd	kW	116.
TJ = bivalent temperature	Pdh	kW	_	TJ = bivalent temperature	PERd	%	_
Annual energy consumption	QHE	GJ	150				
Bivament temperature	Tbiv	°C	TOL < Tdesign	For air-to-water heat pumps Operation limit temperature Heating water operating limit	TOL WTOL	°C	-22 65
Power consumption in modes other than a	ctive mode	9					
Off mode	P OFF	kW	0.000	Rated heat output	Psup	kW	
Thermostat - off mode	Рто	kW	0.021	Type of energy input		Monovalent	
Standby mode	P SB	kW	0.005	J. 33			
Cranksae heat mode	Рок	kW	_				
Other items	· OK			For air-to-water heat pumps			
Capacity control variable				Rated air flow rate outdoors		m³/h	1000
Sound power level, indoors/outdoors	L WA	dB	-/ 75.3	For water- or brine-to-water heat pumps		/!!	. 330
23a porto tovo, indoors/outdoors	L WA	ub ub	-/ /3.3	Rated brine or water flow rate,		m³/h	
Emissions of nitrogen oxides	NOx	mg/	40	outdoor heat exchanger	I	I	I

<sup>1)</sup> Low temperature means  $30^{\circ}\text{C}$  for condensing boilers,  $37^{\circ}\text{C}$  for low temperature boilers and  $50^{\circ}\text{C}$  (at heater inlet) for other heating appliances.

<sup>2)</sup> High temperature means 600°C return temperature at heater inlet and 800°C feed temperature at heater outlet.