

# OCHSNER

## AQUA 17 HSTA



55 °C

35 °C



**A**+++

A\*\*\*

Λ+

Λ

B

C

D



■14 kW

■ 14 kW

### ■17 kW

■ 17 kW

■ 17 kW





2019

811/2013



Heatpump datasheet:					
lanufacturer: OCHSNER					
Model:	AQUA 17 HSTA				
Information concerning energy efficiency class and rated heat of	output:				
	average/low	average/medium			
Energy efficiency class space heater:	A+++	A+++			
Rated heat output:	17 kW	14 kW			
Energy efficiency space heater:	250 %	159 %			
Annual final energy consumption space heater:	5263 kWh	6965 kWh			
Sound power level indoors	47,0 dB(A)				

#### Special precautions concerning assembly, installation or maintenance:

The system was sized, connected, laid out and filled in accordance with applicable standards, regulations and ordinances by a qualified contractor. If the system consists of several sections, these must be connected and installed using original OCHSNER accessories as supplied by OCHSNER. System sections must be connected via the shortest route possible and must not exceed a connection distance of 5 m. In accordance with the operating and installation manual, the system is used as intended for a private building heating system. Commissioning must only be carried out by OCHSNER Customer Service. Maintenance and inspection according to the manufacturer's instructions must be carried out at least every 12 months unless legal requirements and ordinances specify a shorter interval.

Additional information:	low	medium
Rated heat output colder climate:	17 kW	14 kW
Rated heat output warmer climate:	17 kW	14 kW
Energy effiency space heater colder climate:	260 %	164 %
Energy effiency space heater warmer climate:	250 %	158 %
Annual energy consumption space heater colder climate:	6045 kWh	8055 kWh
Annual energy consumption space heater warmer climate:	3399 kWh	4513 kWh

### Technical data of the temperature controller:

Manufacturer:	OCHSNER		
Model:	OTE-Regler		
Controller class with room remote control:	VII	-	
Contribution of the controller to the energy efficiency space heater with room remote control:	3,5	%	
Controller class without room remote control:	III	-	
Contribution of the controller to the energy efficiency space heater without room remote control:	1,5	%	



Model:				AQUA 17 HSTA			
			Water heating heat pump				
Low-temperature he	at pump:			no			
Equipped with a supplementary heater:			no				
Heat pump combination heater:			no				
Temperature applica	Temperature application:			low			
Climate conditions:				colder			
				-			
Item		Symbol	Value	Item	Symbol	Value	
Rated heat output (*	)	Prated	17 kW	Seasonal space heating energy efficiency	$\eta_s$	260 %	
Declared capacity fo °C and outdoor temp		oad at indoo	r temperature 20	Declared coefficient of performance or load at indoor temperature 20 °C and c			
T <sub>j</sub> = -7 °C		Pdh	16.9 kW	T <sub>j</sub> = -7 °C	COPd	6.56	
T <sub>j</sub> = +2 °C		Pdh	17.1 kW	T <sub>j</sub> = +2 °C	COPd	7.00	
T <sub>j</sub> = +7 °C		Pdh	17.3 kW	T <sub>j</sub> = +7 °C	COPd	7.35	
T <sub>j</sub> = +12 °C		Pdh	17.3 kW	T <sub>j</sub> = +12 °C	COPd	7.45	
T <sub>j</sub> = bivalen	t temperature	Pdh	16.6 kW	T <sub>j</sub> = bivalent temperature	COPd	5.93	
T <sub>j</sub> = operati rature	on limit tempe-	Pdh	16.6 kW	T <sub>j</sub> = operation limit temperature	COPd	5.93	
For air-to-water heat	pumps:	D.II		For air-to-water heat pumps:	COD4	6.25	
$T_j = -15 ^{\circ}\text{C}$ (if TOL-	< – 20 °C)	Pdh	16.8 kW	$T_j = -15 ^{\circ}\text{C}$ (if TOL< - 20 $^{\circ}\text{C}$ )	COPd	6.35	
Division to the second sections		T <sub>biv</sub>	-22 °C	For air-to-water heat pumps:	TOL	-22 °C	
Bivalent temperature	•			Operation limit temperature			
Power input "compre	essor off"		0 W	Heating water operating limit temperature	WTOL	68 °C	
Power consumption	in modes other tha	n active mo	de	Supplementary heater	1	1	
Off mode		Poff	20 W	Rated heat output (*)	Psup	0.00 kW	
Thermostat-off mode	9	P <sub>TO</sub>	20 W				
Standby mode		P <sub>SB</sub>	20 W	Type of energy input	electricity		
Crankcase heater m	ode	P <sub>CK</sub>	0 W	-			
Other items			1	-	1		
Capacity control			For air-to-water heat pumps:				
	indoors		47 dB	Rated air flow rate, outdoors	-	-	
Sound power level	outdoors	L <sub>WA</sub>	-	For water-/brine-to-water heat pumps:			
Annual energy consumption		QHE	6045 kWh	Rated brine or water flow rate, out- door heat exchanger	-	3900 l/h	
For heat pump comb	ination heater:		I			l	
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	
Daily electricity cons		Q <sub>elec</sub>	-	Daily fuel consumption	Q <sub>fuel</sub>	-	
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<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating  $\sup(T_j)$ .

OCHSNER Wärmepumpen GmbH, Ochsner-Straße 1, A-3350 Haag

Contact details



Model:		AQUA 17 HSTA					
			Water heating heat pump				
Low-temperature heat pump:			no				
Equipped with a supplementary heater:			no				
Heat pump combination heater:			no				
Temperature applicat	tion:			medium			
Climate conditions:				colder			
Item		Symbol	Value	Item		Symbol	Value
Rated heat output (*)		Prated	14 kW	Seasonal sp ciency	pace heating energy effi-	ης	164 %
Declared capacity for °C and outdoor temp		ad at indoo	r temperature 20		pefficient of performance or or temperature 20 °C and o		
T <sub>j</sub> = -7 °C		Pdh	15.1 kW	T <sub>j</sub> = -7 °C		COPd	4.04
T <sub>j</sub> = +2 °C		Pdh	15.7 kW	T <sub>j</sub> = +2 °C		COPd	4.63
T <sub>j</sub> = +7 °C		Pdh	16.1 kW	T <sub>j</sub> = +7 °C		COPd	5.19
T <sub>j</sub> = +12 °C		Pdh	16.4 kW	T <sub>j</sub> = +12 °C		COPd	5.67
T <sub>j</sub> = bivalent	t temperature	Pdh	14.3 kW	T <sub>j</sub> =	bivalent temperature	COPd	3.33
T <sub>j</sub> = operation rature	on limit tempe-	Pdh	14.3 kW	T <sub>j</sub> =	operation limit tempe- rature	COPd	3.33
For air-to-water heat	pumps:	5	110111	For air-to-wa	ater heat pumps:	COPd	
$T_j = -15 ^{\circ}\text{C}$ (if TOL<	< − 20 °C)	Pdh	14.8 kW	T <sub>j</sub> = -15 °C	(if TOL< - 20 °C)		3.71
D: 1 (1)		T <sub>biv</sub>	-22 °C	For air-to-wa	ater heat pumps:	TOL	-22 °C
Bivalent temperature				Operation li	mit temperature		
Power input "compre	ssor off"		0 W	Heating wat rature	er operating limit tempe-	WTOL	68 °C
Power consumption i	n modes other tha	n active mo	de	Supplemen	tary heater	1	
Off mode		Poff	20 W	Rated heat	output (*)	Psup	0.00 kW
Thermostat-off mode	<b>)</b>	P <sub>TO</sub>	20 W				
Standby mode		P <sub>SB</sub>	20 W	Type of ene	ergy input	electricity	
Crankcase heater mo	ode	P <sub>CK</sub>	0 W				
Other items							
Capacity control		fixed		For air-to-wa	ater heat pumps:		
	indoors		47 dB	Rated air flo	ow rate, outdoors	-	-
Sound power level	outdoors	LWA	-	For water-/b	rine-to-water heat pumps:		
Annual energy consumption C		QHE	8055 kWh	Rated brine door heat ex	or water flow rate, out- xchanger	-	3900 l/h
For heat pump combi	ination heater:	1	1		<u> </u>	1	ı
Declared load profile		-		Water heati	ng energy efficiency	$\eta_{wh}$	-
Daily electricity cons		Q <sub>elec</sub>	-	Daily fuel co		Q <sub>fuel</sub>	-
		1	'				'
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<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T<sub>j</sub>).



Model:		AQUA 17 HSTA					
			Water heating heat pump				
Low-temperature hea	at pump:			no			
Equipped with a supplementary heater:			no				
Heat pump combination heater:			no				
Temperature applica	Temperature application:			low			
Climate conditions:				average			
			1				T
Item		Symbol	Value	Item		Symbol	Value
Rated heat output (*)	)	Prated	17 kW	Seasonal s ciency	pace heating energy effi-	ης	250 %
Declared capacity fo °C and outdoor temp		oad at indoo	r temperature 20	Declared co	pefficient of performance or for temperature 20 °C and o	primary ene utdoor temp	ergy ratio for part erature T <sub>j</sub>
T <sub>j</sub> = -7 °C		Pdh	16.6 kW	T <sub>j</sub> = -7 °C		COPd	6.01
T <sub>j</sub> = +2 °C		Pdh	16.9 kW	T <sub>j</sub> = +2 °C		COPd	6.49
T <sub>j</sub> = +7 °C		Pdh	17.1 kW	T <sub>j</sub> = +7 °C		COPd	6.97
T <sub>j</sub> = +12 °C		Pdh	17.4 kW	T <sub>j</sub> = +12 °C		COPd	7.51
T <sub>j</sub> = bivalen	t temperature	Pdh	16.6 kW	T <sub>j</sub> =	bivalent temperature	COPd	5.93
T <sub>j</sub> = operation rature	on limit tempe-	Pdh	16.6 kW	T <sub>j</sub> =	operation limit tempe- rature	COPd	5.93
For air-to-water heat	pumps:		For air-to-w	ater heat pumps:			
$T_j = -15 ^{\circ}\text{C}$ (if TOL<	< – 20 °C)	Pdh	16.6 kW	T <sub>j</sub> = -15 °C	(if TOL< - 20 °C)	COPd	5.93
Discolar Advances and the		T <sub>biv</sub>	-10 °C	For air-to-w	ater heat pumps:	TOL	-10 °C
Bivalent temperature	1			Operation I	imit temperature		
Power input "compre	essor off"		0 W	Heating wa rature	ter operating limit tempe-	WTOL	68 °C
Power consumption i	in modes other tha	an active mo	de	Supplemer	ntary heater		1
Off mode		Poff	20 W	Rated heat	t output (*)	Psup	0.00 kW
Thermostat-off mode	•	P <sub>TO</sub>	20 W				
Standby mode		P <sub>SB</sub>	20 W	Type of en	Type of energy input		
Crankcase heater mo	ode	Рск	0 W	-			
Other items		'					
Capacity control		fixed		For air-to-w	ater heat pumps:		
0 1 1	indoors	1.	47 dB	Rated air flo	ow rate, outdoors	-	-
Sound power level	outdoors	L <sub>WA</sub>	-	For water-/b	orine-to-water heat pumps:		
Annual energy consumption Q <sub>HE</sub>		QHE	5263 kWh	Rated brine or water flow rate, out-		-	3900 l/h
For heat pump comb	ination heater:		1			1	1
Declared load profile		-		Water heati	ng energy efficiency	η <sub>wh</sub>	-
Daily electricity cons		Q <sub>elec</sub>	-		onsumption	Q <sub>fuel</sub>	-
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<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T<sub>j</sub>).



Model:				AQUA 17 HSTA		
			Water heating heat pump			
Low-temperature heat pump:			no			
Equipped with a supplementary heater:			no			
Heat pump combination heater:			no			
Temperature applica	tion:			medium		
Climate conditions:				average		
Item		Symbol	Value	Item	Symbol	Value
Rated heat output (*)		Prated	14 kW	Seasonal space heating energy efficiency	ης	159 %
Declared capacity fo °C and outdoor temp		ad at indoo	r temperature 20	Declared coefficient of performance or load at indoor temperature 20 °C and c		
T <sub>j</sub> = -7 °C		Pdh	14.5 kW	T <sub>j</sub> = -7 °C	COPd	3.50
T <sub>j</sub> = +2 °C		Pdh	15.3 kW	T <sub>j</sub> = +2 °C	COPd	4.20
T <sub>j</sub> = +7 °C		Pdh	15.8 kW	T <sub>j</sub> = +7 °C	COPd	4.74
T <sub>j</sub> = +12 °C		Pdh	16.3 kW	T <sub>j</sub> = +12 °C	COPd	5.40
T <sub>j</sub> = bivalen	t temperature	Pdh	14.3 kW	T <sub>j</sub> = bivalent temperature	COPd	3.33
T <sub>j</sub> = operation operation operation	on limit tempe-	Pdh	14.3 kW	T <sub>j</sub> = operation limit temperature	COPd	3.33
For air-to-water heat		Pdh	14.3 kW	For air-to-water heat pumps:	COPd	3.33
$T_j = -15 ^{\circ}\text{C}$ (if TOL<	< − 20 °C)			$\frac{T_j = -15 \text{ °C}  (\text{if TOL} < -20 \text{ °C})}{\text{For air to water best purpose}}$		-10 °C
Bivalent temperature		T <sub>biv</sub>	-10 °C	For air-to-water heat pumps:  Operation limit temperature	TOL	
Power input "compre	ssor off"		0 W	Heating water operating limit temperature	WTOL	68 °C
Power consumption i	in modes other that	n active mo	de	Supplementary heater		
Off mode		Poff	20 W	Rated heat output (*)	Psup	0.00 kW
Thermostat-off mode	<del></del>	P <sub>TO</sub>	20 W		<u>'</u>	
Standby mode		P <sub>SB</sub>	20 W	- Type of energy input	electricity	
Crankcase heater mo	ode	P <sub>CK</sub>	0 W			
Sonstige Elemente		1	1	-	1	
Capacity control		fixed		For air-to-water heat pumps:		
	indoors		47 dB	Rated air flow rate, outdoors	-	-
Sound power level	outdoors	L <sub>WA</sub>	-	For water-/brine-to-water heat pumps:		
Annual energy consumption		Q <sub>HE</sub>	6965 kWh	Rated brine or water flow rate, out- door heat exchanger	-	3900 l/h
For heat pump comb	ination heater:	1	1		1	
Declared load profile	l	-		Water heating energy efficiency	η <sub>wh</sub>	-
Daily electricity cons	umption	Q <sub>elec</sub>	-	Daily fuel consumption	Q <sub>fuel</sub>	-
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<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T<sub>j</sub>).



Model:			AQUA 17 HSTA				
			Water heating heat pump				
Low-temperature hea	Low-temperature heat pump:			no			
Equipped with a supplementary heater:			no				
Heat pump combination heater:			no				
Temperature applica	tion:			low			
Climate conditions:				warmer			
Itam		Symbol	Value	Item	Symbol	Value	
Item		Symbol	value	Seasonal space heating energy effi-	Symbol	Value	
Rated heat output (*)	)	Prated	17 kW	ciency	ηs	250 %	
Declared capacity fo °C and outdoor temp		oad at indoo	r temperature 20	Declared coefficient of performance or load at indoor temperature 20 °C and c			
T <sub>j</sub> = -7 °C		Pdh	16.6 kW	T <sub>j</sub> = -7 °C	COPd	5.93	
T <sub>j</sub> = +2 °C		Pdh	16.6 kW	T <sub>j</sub> = +2 °C	COPd	5.93	
T <sub>j</sub> = +7 °C		Pdh	16.8 kW	T <sub>j</sub> = +7 °C	COPd	6.38	
T <sub>j</sub> = +12 °C		Pdh	17.2 kW	T <sub>j</sub> = +12 °C	COPd	7.51	
T <sub>j</sub> = bivalen	t temperature	Pdh	16.6 kW	T <sub>j</sub> = bivalent temperature	COPd	5.93	
T <sub>j</sub> = operation rature	on limit tempe-	Pdh	16.6 kW	T <sub>j</sub> = operation limit temperature	COPd	5.93	
For air-to-water heat	pumps:	Pdh	16.6 kW	For air-to-water heat pumps:	COPd	5.93	
$T_j = -15 ^{\circ}\text{C}$ (if TOLs	< - 20 °C)	I dii	10.0 KVV	$T_j = -15  ^{\circ}\text{C}  \text{(if TOL} < -20  ^{\circ}\text{C)}$			
Bivalent temperature	<b>.</b>	T <sub>biv</sub>	2 °C	For air-to-water heat pumps:	TOL	2 °C	
				Operation limit temperature	102		
Power input "compre	essor off"		0 W	Heating water operating limit temperature	WTOL	68 °C	
Power consumption	in modes other tha	n active mo	de	Supplementary heater			
Off mode		Poff	20 W	Rated heat output (*)	Psup	0.00 kW	
Thermostat-off mode	9	P <sub>TO</sub>	20 W	_			
Standby mode		P <sub>SB</sub>	20 W	Type of energy input	electricity		
Crankcase heater me	ode	P <sub>CK</sub>	0 W				
Sonstige Elemente		_					
Capacity control		fixed		For air-to-water heat pumps:	_	_	
Sound power level	indoors	Lwa	47 dB	Rated air flow rate, outdoors			
Count power level	outdoors	LWA	-	For water-/brine-to-water heat pumps:			
Annual energy consumption QHE		QHE	3399 kWh	Rated brine or water flow rate, out- door heat exchanger	-	3900 l/h	
For heat pump comb	ination heater:					-	
Declared load profile	<b>;</b>	-		Water heating energy efficiency	η <sub>wh</sub>	-	
Daily electricity cons	umption	Q <sub>elec</sub>	-	Daily fuel consumption	Q <sub>fuel</sub>	-	
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<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T<sub>j</sub>).



Model:				AQUA 17 HSTA			
			Water heating heat pump				
Low-temperature he	at pump:			no			
Equipped with a supplementary heater:			no				
Heat pump combination heater:			no				
Temperature applica	tion:			medium			
Climate conditions:				warmer			
Item		Symbol	Value	Item	Symbol	Value	
Rated heat output (*)	)	Prated	14 kW	Seasonal space heating energy efficiency	$\eta_s$	158 %	
Declared capacity fo °C and outdoor temp		oad at indoo	r temperature 20	Declared coefficient of performance or load at indoor temperature 20 °C and c			
T <sub>j</sub> = -7 °C		Pdh	14.3 kW	T <sub>j</sub> = -7 °C	COPd	3.33	
T <sub>j</sub> = +2 °C		Pdh	14.3 kW	T <sub>j</sub> = +2 °C	COPd	3.33	
T <sub>j</sub> = +7 °C		Pdh	15.0 kW	T <sub>j</sub> = +7 °C	COPd	3.87	
T <sub>j</sub> = +12 °C		Pdh	16.0 kW	T <sub>j</sub> = +12 °C	COPd	4.95	
T <sub>j</sub> = bivalen	t temperature	Pdh	14.3 kW	T <sub>j</sub> = bivalent temperature	COPd	3.33	
T <sub>j</sub> = operati rature	on limit tempe-	Pdh	14.3 kW	T <sub>j</sub> = operation limit temperature	COPd	3.33	
For air-to-water heat	pumps:	Pdh	14.2 1/1/	For air-to-water heat pumps:	COPd	3.33	
$T_j = -15 ^{\circ}\text{C}$ (if TOL-	< – 20 °C)	Full	14.3 kW	$T_j = -15 ^{\circ}\text{C}$ (if TOL< $-20 ^{\circ}\text{C}$ )	COPu	3.33	
Bivalent temperature		T <sub>biv</sub>	2 °C	For air-to-water heat pumps:	TOL	2 °C	
Divalent temperature	,	I DIV	2 0	Operation limit temperature	TOL	2 0	
Power input "compre	essor off"		0 W	Heating water operating limit temperature	WTOL	68 °C	
Power consumption	in modes other th	an active mo	de	Supplementary heater			
Off mode		Poff	20 W	Rated heat output (*)	Psup	0.00 kW	
Thermostat-off mode	Э	P <sub>TO</sub>	20 W				
Standby mode		P <sub>SB</sub>	20 W	Type of energy input	electricity		
Crankcase heater m	ode	Pck	0 W				
Other items							
Capacity control	fixed		For air-to-water heat pumps:				
Sound power level	indoors	1,,,,	47 dB	Rated air flow rate, outdoors		-	
Sound power level	outdoors	LWA	-	For water-/brine-to-water heat pumps:			
Annual energy consumption Q <sub>HE</sub> 4513 kV		4513 kWh	Rated brine or water flow rate, out- door heat exchanger	-	3900 l/h		
For heat pump comb	ination heater:						
Declared load profile	;	-		Water heating energy efficiency	$\eta_{\text{wh}}$	-	
Daily electricity cons	sumption	Q <sub>elec</sub>	-	Daily fuel consumption	Q <sub>fuel</sub>	-	

<sup>(\*)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating-Pde-signh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating  $\sup(T_j)$ .

OCHSNER Wärmepumpen GmbH, Ochsner-Straße 1, A-3350 Haag

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