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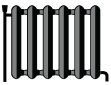
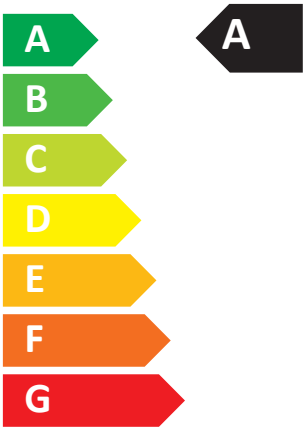
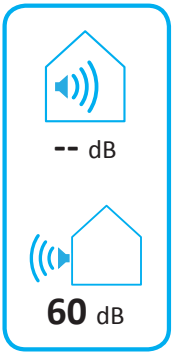
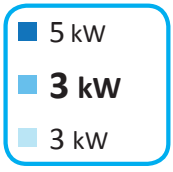
OCHSNER
WÄRMEPUMPEN

AIR BASIC 109 C11B T200









2015

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Technische Daten der Wärmepumpe: **Heatpump datasheet:**	
Hersteller: Manufacturer:	OCHSNER Wärmpumpen GmbH
Modell: Model:	**AIR BASIC 109 C11B T200**

Angaben zur Energieeffizienzklasse und der Nennleistung: **Information concerning energy efficiency class and rated heat output:**			
Lastprofil Load profile			-
	average / low	average / medium	
Energieeffizienzklasse Raumheizung: Energy efficiency class space heater:	A++	A+	-
Energieeffizienzklasse Warmwasserbereitung: Energy efficiency class hot water:	A		-
Wärmenennleistung: Rated heat output:	3	3	kW
Jährlicher Endenergieverbrauch Raumheizung: Annual final energy consumption space heater:	1721	2307	kWh
Jährlicher Energieverbrauch Warmwasserbereitung: Annual energy consumption hot water:	1050		kWh
Energieeffizienz Raumheizung: Energy efficiency space heater:	162	110	%
Energieeffizienz Warmwasserbereitung: Energy efficiency hot water:	80		%
Schallleistungspegel in Innenräumen Sound power level indoors		-	dB

Besondere Vorkehrungen bei Zusammenbau, Installation oder Wartung:
Special precautions concerning assembly, installation or maintenance:

Sowohl die Auslegung als auch der Anschluss, Aufbau und die Befüllung der Anlage wurde nach gültigen Normen, Vorschriften und Verordnungen durch eine dazu ermächtigte Fachfirma oder Fachhandwerk vorgenommen. Besteht die Anlagen aus mehreren Geräteteilen sind diese mit OCHSNER Originalzubehör aus dem Lieferumfang von OCHSNER zu verbinden und zu errichten. Anlagenteile sind auf kürzestem und direktem Wege miteinander zu verbinden und überschreiten den Verbindungsabstand von 5m nicht. Unter Einhaltung der Bedienungs- und Installationsanleitung wird die Anlage im Rahmen seines bestimmungsgemäßen Gebrauch für eine privat genutzte Gebäudeheizung verwendet. Die Inbetriebnahme hat ausschließlich durch den OCHSNER Werkskundendienst stattzufinden. Wartungen und Inspektionen nach Herstellerangaben sind mindestens alle 12 Monate durchzuführen, sofern nicht Gesetze und Verordnungen zu einem häufigeren Intervall auffordern.

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.

Zusätzliche Angaben: **Additional information:**	low	medium	
Wärmenennleistung kälteres Klima Rated heat output colder climate	5	5	kW
Wärmenennleistung wärmeres Klima Rated heat output warmer climate	3	3	kW
Jährl. Energieverbrauch Raumheizung kälteres Klima Annual energy consumption space heater colder climate	3991	4561	kWh
Jährl. Energieverbrauch Raumheizung wärmeres Klima Annual energy consumption space heater warmer climate	788	953	kWh
Jährl. Energieverbrauch Warmwasser kälteres Klima Annual energy consumption hot water colder climate	1148		kWh
Jährl. Energieverbrauch Warmwasser wärmeres Klima Annual energy consumption hot water warmer climate	911		kWh
Energieeffizienz Raumheizung kälteres Klima Energy effiency space heater colder climate	120	101	%
Energieeffizienz Raumheizung wärmeres Klima Energy effiency space heater warmer climate	203	144	%
Energieeffizienz Warmwasser kälteres Klima Energy efficiency hot water colder climate	73		%
Energieeffizienz Warmwasser wärmeres Klima Energy efficiency hot water warmer climate	92		%
Schallleistungspegel im Außenbereich Sound power level outdoors		60	dB

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Technische Daten des Temperaturreglers: **Technical data of the temperature controller:**		
Hersteller: Manufacturer:	OCHSNER Wärmepumpen GmbH	
Modell: Model:	OTE	
Klasse des Reglers mit Raumfernbedienung Controller class with room remote control	VI	-
Beitrag des Reglers zur Raumheizungs-Energieeffizienz mit Raumfernbedienung Contribution of the controller to the energy efficiency space heater with room remote control	4	%
Klasse des Reglers ohne Raumfernbedienung Controller class without room remote control	II	-
Beitrag des Reglers zur Raumheizungs-Energieeffizienz ohne Raumfernbedienung Contribution of the controller to the energy efficiency space heater without room remote control	2	%

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Manufacturer: OCHSNER Wärmepumpen GmbH
Model: OCHSNER AIR BASIC 109 C11B T200
Air - to - water heat pump
Low-temperature heat pump: no
Equipped with a supplementary heater: yes
Heat pump combination heater: yes
Application: low
Climate: average

Item	Symbol	Value	Unit
Rated heat output *	**Prated**	**3,4**	**kW**
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	3,0	kW
T_j = +2°C	Pdh	1,9	kW
T_j = +7°C	Pdh	1,4	kW
T_j = +12°C	Pdh	2,0	kW
T_j = bivalent temperature	Pdh	3,0	kW
T_j = operation limit	Pdh	2,7	kW
For air-to-water heat pumps: T_j = -15°C (if TOL < -20°C)	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power input "compressor off"		0	W
Power consumption in modes other than active mode			
Off mode	P_{OFF}	15	W
Thermostat-off mode	P_{TO}	15	W
Standby mode	P_{SB}	15	W
Crankcase heater mode	P_{CK}	0	W
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	- / 60	dB
Annual energy consumption	Q_{HE}	1721	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_s**	**162**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COPd	2,89	
T_j = +2°C	COPd	4,16	
T_j = +7°C	COPd	4,76	
T_j = +12°C	COPd	7,26	
T_j = bivalent temperature	COPd	2,89	
T_j = operation limit	COPd	2,58	
For air-to-water heat pumps: T_j = -15°C (if TOL < -20°C)	COPd	-	
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output *	P_{sup}	0,71	kW
Type of energy input	electricity		
For air-to-water heat pumps: Rated air flow rate, outdoors		2500	m^3/h
For water-/brine-to-water Heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	l/h

For heat pump combination heater:

Declared load profile	**L**		
Daily electricity consumption	Q_{elec}	4,781	kWh

Water heating energy efficiency	**η_{wh}**	**80**	**%**
Daily fuel consumption	Q_{fuel}	-	kWh

Contact details: OCHSNER Wärmepumpen GmbH, Ochsner-Straße 1, A-3350 Haag

* For heat pumps space heaters and heat pump combination heaters, the rated heat output *Prated* is equal to the design load for heating *Pdesignh* , and the rated heat output of a supplementary heater *Psup* is equal to the supplementary capacity for heating *sup(Tj)* .

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Manufacturer: OCHSNER Wärmepumpen GmbH
Model: OCHSNER AIR BASIC 109 C11B T200
Air - to - water heat pump
Low-temperature heat pump: no
Equipped with a supplementary heater: yes
Heat pump combination heater: yes
Application: medium
Climate: average

Item	Symbol	Value	Unit
Rated heat output *	**Prated**	**3,2**	**kW**
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	2,8	kW
T_j = +2°C	Pdh	1,7	kW
T_j = +7°C	Pdh	1,3	kW
T_j = +12°C	Pdh	1,7	kW
T_j = bivalent temperature	Pdh	2,8	kW
T_j = operation limit	Pdh	2,7	kW
For air-to-water heat pumps: T_j = -15°C (if TOL < -20°C)	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power input "compressor off"		0	W
Power consumption in modes other than active mode			
Off mode	P_{OFF}	15	W
Thermostat-off mode	P_{TO}	15	W
Standby mode	P_{SB}	15	W
Crankcase heater mode	P_{CK}	0	W
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	- / 60	dB
Annual energy consumption	Q_{HE}	2307	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_s**	**110**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COPd	2,04	
T_j = +2°C	COPd	2,75	
T_j = +7°C	COPd	3,54	
T_j = +12°C	COPd	5,08	
T_j = bivalent temperature	COPd	2,04	
T_j = operation limit	COPd	1,27	
For air-to-water heat pumps: T_j = -15°C (if TOL < -20°C)	COPd	-	
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output *	P_{sup}	0,49	kW
Type of energy input	electricity		
For air-to-water heat pumps: Rated air flow rate, outdoors		2500	m^3/h
For water-/brine-to-water Heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	l/h

For heat pump combination heater:

Declared load profile	**L**		
Daily electricity consumption	Q_{elec}	4,781	kWh

Water heating energy efficiency	**η_{wh}**	**80**	**%**
Daily fuel consumption	Q_{fuel}	-	kWh

Contact details: OCHSNER Wärmepumpen GmbH, Ochsner-Straße 1, A-3350 Haag

* For heat pumps space heaters and heat pump combination heaters, the rated heat output *Prated* is equal to the design load for heating *Pdesignh* , and the rated heat output of a supplementary heater *Psup* is equal to the supplementary capacity for heating *sup(Tj)* .