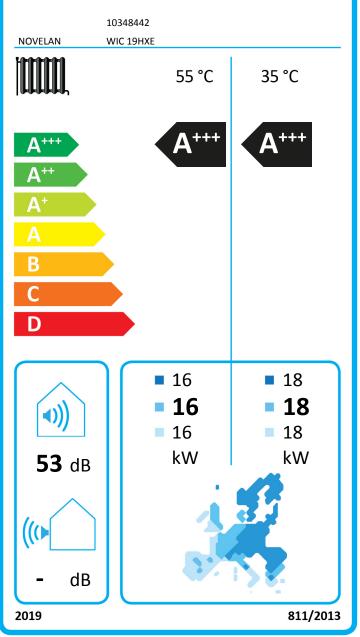
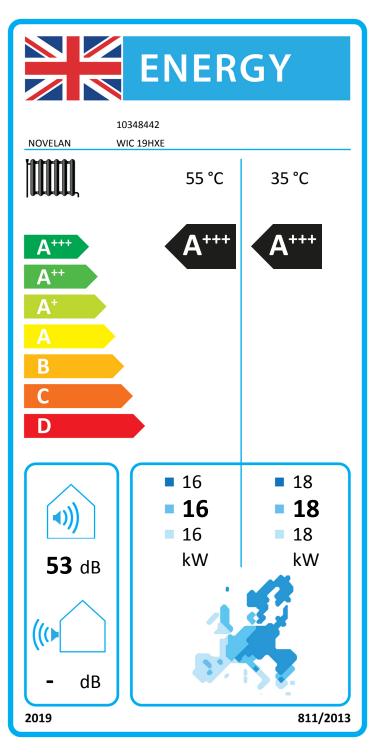


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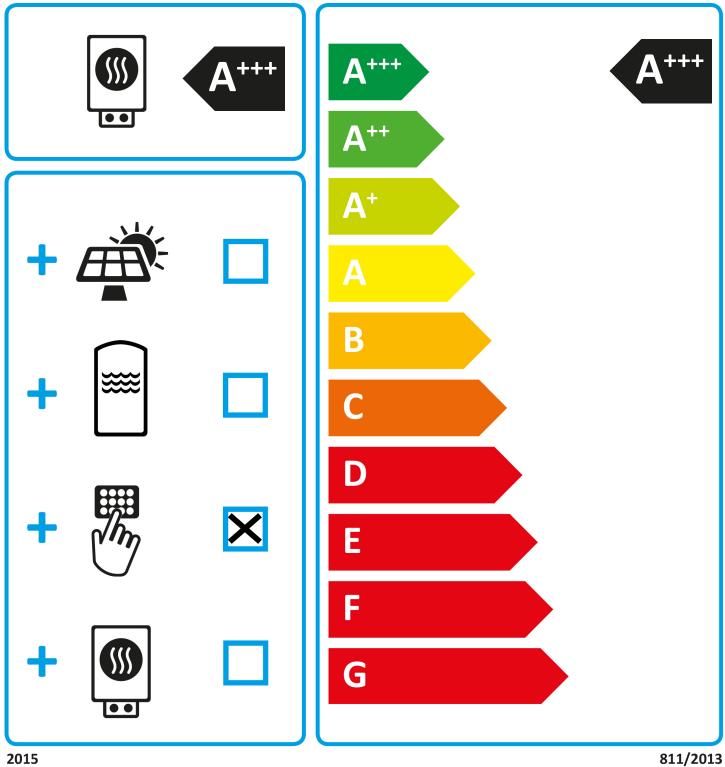


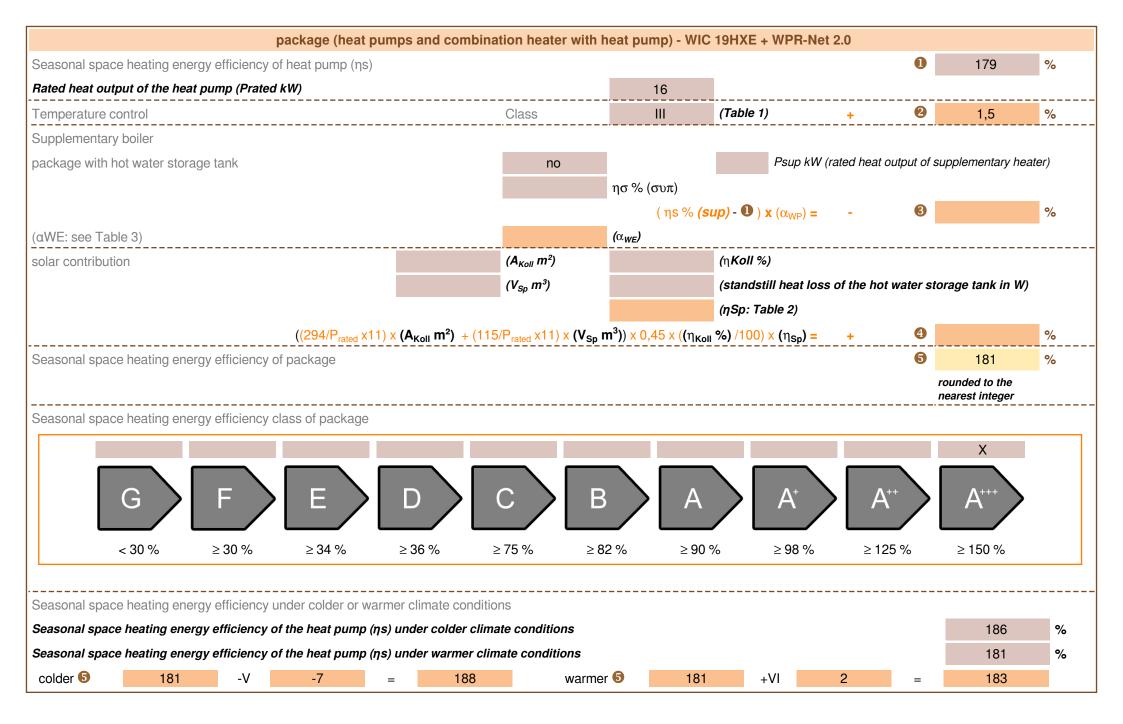
## 10348442

NOVELAN

WIC 19HXE + WPR-Net 2.0

## 





heatpump datasheet:		
manufacturer:	NOVELAN	
model:	WIC 19HXE	

## Information concerning energy efficiency class and rated heat output:

average / low	average / medium	
A+++	A+++	-
18	16	kW
234	179	%
6249	7193	kWh
	A+++           18           234	A+++         A+++           18         16           234         179

53

dB

sound power level indoors

## special precautions concerning assembly, installation or maintenance

All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.

additional information	low	medium	
ated heat output colder climate	18	16	kW
ated heat output warmer climate	18	16	kW
energy effiency space heater colder climate	241	186	%
energy effiency space heater warmer climate	236	181	%
annual energy consumption space heater colder climate	7258	8276	kWh
annual energy consumption space heater warmer climate	4012	4604	kWh

technical data of the temperature controller						
manufacturer:		NOVELAN				
model:		WPR-Net 2.0				
controller class			-			
contribution of the controller to the energy efficiency space heater		1,5	%			

Rated heat outputPrated16kWSeasonal space heating energy efficiencyn/S179.3%Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjTj = -7°CPdh16.6kWTj = -7°CCOPd3.63-Tj = +2°CPdh17.6KWTj = +7°CCOPd4.61-Tj = +12°CPdh18.8kWTj = +12°CCOPd6.37-Tj = bivalent temperaturePdh16.3kWTj = operation limit temperatureCOPd3.39-Tj = operation limit temperaturePdh16.3kWTj = operation limit temperatureCOPd3.39-For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)Pdh-kWFor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)COPdBivalent temperatureTbiv-10°CFor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)COPdBivalent temperatureTbiv-10°CFor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)COPdBivalent temperatureTbiv-10°CFor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)COPdBivalent temperatureTbiv-10°CFor air-to-water heat pumps: Tj <b< th=""><th>Model</th><th></th><th></th><th></th><th>WIC 19HXE</th><th></th><th></th><th></th></b<>	Model				WIC 19HXE			
Water-to-water heat pump: (yes/no)       yes         Low-temperature heat pump: (yes/no)       no         Equipped with supplementary heater: (yes/no)       no         application: (low/modum)       no         application: (low/modum)       medium         constantion heater with: (yes/no)       no         application: (low/modum)       average         Item       Symbol       Value       Value       Value       In         Rated heat output       Prated       16       KW       Seasonal space heating energy efficiency       nS       179,3       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj       Ti = -7°C       COPd       3,63       -         Tj = -2°C       Pdh       16,6       KW       Tj = -7°C       COPd       3,63       -         Tj = -7°C       Pdh       18,2       kW       Tj = +7°C       COPd       3,63       -         Tj = +7°C       Pdh       18,8       kW       Tj = +12°C       COPd       3,38       -         Tj = opration limit temperature       Pdh       16,3       kW       Tj = solvalent temperature       COPd       3,39       -         For air-to-water heat pumps: Tj       cOPd	Air-to-water heat pump: (yes/no)							
Low-temperature heat pump: (yes/no)       no         Equipped with supplementary heater: (yes/no)       yes         combination heater with: (yes/no)       no         application: (low/medium)       medium         climate: (colder/average/warmer)       average         Item       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       16       k/W       Seasonal space heating energy efficiency       nS       179,3       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TJ       Declared coefficient of performance for part load at indoor temperature TJ       Declared coefficient of performance for part load at indoor temperature TJ       Ti = -7°C       COPd       3,63       -         Tj = -7°C       Pdh       16,6       k/W       Tj = +2°C       COPd       3,63       -         Tj = +2°C       Pdh       18,8       K/W       Tj = +12°C       COPd       6,37       -         Tj = bivalent temperature       Pdh       16,3       K/W       Tj = operation limit temperature       COPd       3,39       -         Tj = operation limit temperature       Pdh       16,3       K/W       For air-to-water heat pumps: Tj       COPd       <	Brine-to-water heat pump: (yes/n	o)			no			
Equipped with supplementary heater: (yes/no)       yes         combination heater with: (yes/no)       no         application: (low/medium)       medium         combination heater with: (yes/no)       average         term       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       16       k/W       Seasonal space heating energy efficiency $\eta$ S       179,3       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 71       Declared coefficient of performance for part load at indoor temperature 71       Declared coefficient of performance for part load at indoor temperature 71       Declared coefficient of performance for part load at indoor for part is a strestow for partis and theating performance for part load at indoor f	Water-to-water heat pump: (yes/r				yes			
combination heater with: (yes/ho)       no         application: (low/medium)       medium         climate: (colder/average/warmer)       average         Item       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       16       KW       Seasonal space heating energy efficiency       nS       179,3       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj       Ti = 7°°C       Pdh       16,6       KW       Tj = +2°°C       COPd       3,63       -         Tj = +2°C       Pdh       17,6       kW       Tj = +2°°C       COPd       4,61       -         Tj = +2°C       Pdh       18,8       kW       Tj = +7°C       COPd       5,40       -         Tj = +2°C       Pdh       18,3       kW       Tj = +7°C       COPd       5,40       -         Tj = +12°C       Pdh       18,3       kW       Tj = +7°C       COPd       3,39       -         Tj = operation limit temperature       Pdh       16,3       kW       Tj = operation limit temperature       COPd       3,39       -         Tj = operation limit temperature       Tb       -10 <t< td=""><td>Low-temperature heat pump: (ye:</td><td>s/no)</td><td></td><td></td><td colspan="4"></td></t<>	Low-temperature heat pump: (ye:	s/no)						
application: (low/medium)       nedium         climate: (colder/average/warmer)       average         tem       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       16       kW       Seasonal space heating energy efficiency $nS$ 179,3 $\%$ Declared coefficient of performance for part load at indoor temperature Tj       medium       Declared coefficient of performance for part load at indoor         Tj = -7°C       Pdh       16,6       kW       Tj = -7°C       COPd       3,63       -         Tj = +2°C       Pdh       16,6       kW       Tj = +2°C       COPd       4,61       -         Tj = +2°C       Pdh       18,8       KW       Tj = +12°C       COPd       6,37       -         Tj = bivalent temperature       Pdh       16,3       kW       Tj = operation limit temperature       COPd       3,39       -         For air-to-water heat pumps: Tj       Pdh       -       KW       Tj = operation limit temperature       COPd       -       -         e-15° (fTOL < -20°C)	Equipped with supplementary heater: (yes/no)				yes			
climate: (colder/average/warmer)       average         Item       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       16       kW       Seasonal space heating regy efficiency $\eta$ S       179,3       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj         Tj = -7°C       Pdh       16,6       kW       Tj = -7°C       COPd       3,63       -         Tj = +2°C       Pdh       17,6       kW       Tj = +7°C       COPd       4,61       -         Tj = +2°C       Pdh       18,2       kW       Tj = +7°C       COPd       6,37       -         Tj = bralent temperature       Pdh       18,3       kW       Tj = +12°C       COPd       6,37       -         Tj = operation limit temperature       Pdh       16,3       kW       Tj = operation limit temperature       COPd       3,39       -         e -15°C (ff TOL < -20°C)	combination heater with: (yes/no)	)			no			
ItemSymbolValueUnitItemSymbolValueUnitRated heat outputPrated16kWSeasonal space heating energy efficiency $\eta_S$ 179.3%Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjTj = -7°CPdh16.6kWTj = -7°CCOPd3.63-Tj = +2°CPdh18.2kWTj = +2°CCOPd6.37-Tj = bizent temperaturePdh16.3kWTj = tar2°CCOPd3.39-Tj = operation limit temperaturePdh16.3kWTj = operation limit temperatureCOPd3.39-For air-to-water heat pumps: TjPdh-kWFor air-to-water heat pumps: TjCOPd= -15°C (if TOL < -20°C)	application: (low/medium)				medium			
Rated heat outputPrated16kWSeasonal space heating energy efficiency $\eta S$ 179.3 $\gamma$ Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TTj = -7°CPdh16.6kWTj = -7°CCOPd3.63-Tj = +7°CPdh18.2kWTj = +7°CCOPd4.61-Tj = +12°CPdh18.8kWTj = +7°CCOPd5.40-Tj = bivalent temperaturePdh16.3kWTj = +7°CCOPd3.39-Tj = bivalent temperaturePdh16.3kWTj = operation limit temperatureCOPd3.39-Tj = operation limit temperaturePdh16.3kWTj = operation limit temperatureCOPd3.39-For air-to-water heat pumps: Tj e-15°C (if TOL < -20°C)	climate: (colder/average/warmer)				average			
Image: Control of the control of t	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
temperature 20°C and outdoor temperature TjT] = -7°CPdh16,6KWT] = -7°CCOPd3,63-T] = +2°CPdh17,6KWTj = +2°CCOPd4,61-T] = +12°CPdh18,2KWTj = +12°CCOPd6,37-T] = bivalent temperaturePdh16,3KWTj = bivalent temperatureCOPd6,37-T] = operation limit temperaturePdh16,3KWTj = operation limit temperatureCOPd3,39-To aperation limit temperaturePdh16,3KWTj = operation limit temperatureCOPd3,39-For air-to-water heat pumps: Tj = 0fer air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Rated heat output	Prated	16	kW		ηS	179,3	%
T = +2°CPdh17,6KWT = +2°CCOPd4,61-T = +7°CPdh18,2kWT = +7°CCOPd5,40-T = +12°CPdh18,8kWT = +12°CCOPd6,37-T = bivalent temperaturePdh16,3kWT = pivalent temperatureCOPd3,39-T = operation limit temperaturePdh16,3kWT = operation limit temperatureCOPd3,39-For air-to-water heat pumps: T = of C (IT CL < -20°C)Pdh-kWFor air-to-water heat pumps: T OLe15°C (IT CL < -20°C)Pdh-kWCycling interval efficiencyCOPdBivalent temperatureT = bry-10°CFor air-to-water heat pumps: T OL -10°CDegradation co-efficient (**)Cdh1,0-Heating water operating limit temperatureWTOL 65°CDegradation co-efficient (**)Cdh1,0-Heating water operating limit temperatureWTOL 65°COff modeP <sub>OFF</sub> 0,010kWRated heat outputPsup-kWCharakcase heater modeP <sub>CK</sub> -kWType of energy inputelectricalCanakcase heater modeP <sub>CK</sub> -kWFor air-to-water heat pumps: Air of material flow rate, outdoorsCharakcase heater modeP <sub>CK</sub> -kWType of energy inputelectrical-Canakcase heater modeP <sub>CK</sub>				indoor				ndoor
T  = +7°CPdh18,2kWT  = +7°CCOPd5,40-T ]= +12°CPdh18,8kWT  = +12°CCOPd6,37-T ]= bivalent temperaturePdh16,3kWT  = bivalent temperatureCOPd3,39-T  = operation limit temperaturePdh16,3kWT  = operation limit temperatureCOPd3,39-For air-to-water heat pumps: T  Pdh-kWFor air-to-water heat pumps: T  COPdFor air-to-water heat pumps: T  Pdh-kWFor air-to-water heat pumps: T  COPdBivalent temperatureT  = v C C C  C (ff TCL < 20°C)	Tj = -7°C	Pdh	16,6	kW	Tj = -7°C	COPd	3,63	-
Tj = +12°CPdh18,8kWTj = +12°CCOPd6,37-Tj = bivalent temperaturePdh16,3kWTj = bivalent temperatureCOPd3,39-Tj = operation limit temperaturePdh16,3kWTj = operation limit temperatureCOPd3,39-For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Tj = +2°C	Pdh	17,6	kW	Tj = +2°C	COPd	4,61	-
T = bivalent temperaturePdh16,3kWT = bivalent temperatureCOPd3,39-T = operation limit temperaturePdh16,3kWT = operation limit temperatureCOPd3,39-For air-to-water heat pumps: T = -15 °C (if TOL < -20 °C)	Tj = +7°C	Pdh	18,2	kW	Tj = +7°C	COPd	5,40	-
T = operation limit temperaturePdh16,3kWT j = operation limit temperatureCOPd3,39-For air-to-water heat pumps: T j = -15°C (if TOL < -20°C)	Tj = +12°C	Pdh	18,8	kW	Tj = +12°C	COPd	6,37	-
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)Pdh-KWFor air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)COPdBivalent temperature $T_{biv}$ -10°CFor air-to-water heat pumps: Operation limit temperatureTOL-10°CCycling interval capacity for heatingPcych-kWCycling interval efficiencyCOPcycDegradation co-efficient (**)Cdh1,0-Heating water operating limit temperatureWTOL65°COff modeP <sub>OFF</sub> 0,010kWRated heat outputPsup-kWCrankcase heater modeP <sub>OK</sub> -kWType of energy inputelectricalOther itemsCapacity controlfixedFor air-to-water heat pumps: Type of energy inputSupplementary heaterOther itemsCapacity controlkWFor air-to-water heat pumps: Type of energy inputelectricalOther itemsCapacity controlfixedFor air-to-water heat pumps: Rated air flow rate, outdoorsm3Gapacity controlfixedFor air-to-water heat pumps: Rated air flow rate, outdoorsGapacity controlfixed53 /-dBFor water/prime-to-water heat pumps: Rated brine or water flow rate, outdoor h	Tj = bivalent temperature	Pdh	16,3	kW	Tj = bivalent temperature	COPd	3,39	-
$ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -15 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (\text{if TOL} < -20 ^{\circ} C) $ $ = -10 ^{\circ} C (if$	Tj = operation limit temperature	Pdh	16,3	kW	Tj = operation limit temperature	COPd	3,39	-
Construction       Construction       Operation       Image: Construction of the constru		Pdh	-	kW		COPd	-	-
heating       Image: Construction of the section of the sectin of the section of the section of the section of the s	Bivalent temperature	T <sub>biv</sub>	-10	°C		TOL	-10	°C
ConstraintImage: Supplementation in modes other than active modeSupplementary heaterOff mode $P_{OFF}$ 0,010kWRated heat outputPsup-kWThermostat-off mode $P_{TO}$ 0,010kWType of energy inputelectricalelectricalStandby mode $P_{SB}$ 0,010kWType of energy inputelectricalelectricalCrankcase heater mode $P_{CK}$ -kWthe supplementary heaterelectricalOther itemsCapacity controlfixedfixedFor air-to-water heat pumps: Rated air flow rate, outdoorsm³sound power level, indoors/outdoorsLwA53 / -dBFor water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger-4m³Emissions of nitrogen oxidesNO_X-mg/kWh-9/k-9/kDeclared load profileWater heating energy efficiency $\eta_{wh}$ -9/k		Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Off mode $P_{OFF}$ 0,010kWRated heat outputPsup-kVThermostat-off mode $P_{To}$ 0,010kWType of energy inputelectricalStandby mode $P_{SB}$ 0,010kWType of energy inputelectricalCrankcase heater mode $P_{CK}$ -kWType of energy inputelectricalOther itemsType of energy input- $KW$ Month of the second of the s	Degradation co-efficient (**)	Cdh	1,0	-		WTOL	65	°C
Thermostat-off mode       PTO       0,010       kW       Type of energy input       electrical         Standby mode       PSB       0,010       kW       Type of energy input       electrical         Crankcase heater mode       PCK       -       kW       electrical         Other items       For air-to-water heat pumps: Rated air flow rate, outdoors       -       -       m <sup>3</sup> sound power level, indoors/outdoors       LwA       53 / -       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       4       m <sup>3</sup> Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       %         Declared load profile       -       -       Water heating energy efficiency       n <sub>wh</sub> -       %	Power consumption in modes	other thar	n active mod	e	Supplementary heater			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Off mode	P <sub>OFF</sub>	0,010	kW	Rated heat output	Psup	-	kW
Standby mode       P <sub>SB</sub> 0,010       kW       PCR       FCR       PCR       PCR <td>Thermostat-off mode</td> <td></td> <td>0,010</td> <td>kW</td> <td>Type of energy input</td> <td></td> <td>electrical</td> <td></td>	Thermostat-off mode		0,010	kW	Type of energy input		electrical	
Other items         Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       -       m <sup>3</sup> sound power level, indoors/outdoors       L <sub>WA</sub> 53 / -       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       4       m <sup>3</sup> Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       Water heating energy efficiency       n <sub>wh</sub> -       %	Standby mode		0,010	kW				
Other items         Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       -       m <sup>3</sup> sound power level, indoors/outdoors       L <sub>WA</sub> 53 / -       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       4       m <sup>3</sup> Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       -       %         Declared load profile       -       -       Water heating energy efficiency       n <sub>wh</sub> -       %	Crankcase heater mode	Р <sub>ск</sub>	-	kW				
Sound power level, indoors/outdoors       L <sub>WA</sub> 53 / -       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       4       m <sup>3</sup> Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       - </td <td>Other items</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td>	Other items					•		
indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       pumps: Rated brine or water flow rate, outdoor heat exchanger       indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       indoors/outdoors       pumps: Rated brine or water flow rate, outdoor heat       indoors/outdoor	Capacity control		fixed			-	-	m³/h
For heat pump combination heater:       Water heating energy efficiency       η <sub>wh</sub> -       %	-	L <sub>WA</sub>	53 / -	dB	pumps: Rated brine or water flow rate, outdoor heat	-	4	m <sup>3</sup> /h
Declared load profile - Water heating energy efficiency η <sub>wh</sub> - %	Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				
	For heat pump combination h	eater:						
	Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption Q <sub>elec</sub> - KWh   Daily fuel consumption Qfuel - KW	Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	Contact details		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	-		-
(*) For heat pump 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).								eating
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.	(**) If Cdh is not determined by m	easuremen	t then the defa	ault degradat	tion coefficient is Cdh = 0,9.			

Model				WIC 19HXE			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/n	o)			no			
Water-to-water heat pump: (yes/	no)			yes			
Low-temperature heat pump: (ye	s/no)			no			
Equipped with supplementary heater: (yes/no)				yes			
combination heater with: (yes/no)				no			
application: (low/medium)				low			
climate: (colder/average/warmer)				average			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	18	kW	Seasonal space heating energy efficiency	ηS	234,0	%
Declared coefficient of perfor temperature 20°C and outdoor			indoor	Declared coefficient of perfor temperature 20 °C and outdoo			ndoor
Tj = -7°C	Pdh	18,3	kW	Tj = -7°C	COPd	5,66	-
Tj = +2°C	Pdh	18,6	kW	Tj = +2°C	COPd	6,03	-
Tj = +7°C	Pdh	18,8	kW	Tj = +7°C	COPd	6,39	-
Tj = +12°C	Pdh	19,0	kW	Tj = +12°C	COPd	6,72	-
Tj = bivalent temperature	Pdh	18,3	kW	Tj = bivalent temperature	COPd	5,60	-
Ti = operation limit temperature	Pdh	18,3	kW	Tj = operation limit temperature	COPd	5,60	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T <sub>biv</sub>	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other that	n active mod	le	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,010	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P <sub>TO</sub>	0,010	kW	Type of energy input		electrical	
Standby mode	P <sub>SB</sub>	0,010	kW	1			
Crankcase heater mode	Рск	-	kW				
Other items			1				
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
sound power level, indoors/outdoors	L <sub>WA</sub>	53 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	4	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh	·	-		-
For heat pump combination h							
Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details		land GmbH Ir		95359 Kasendorf Germany			
(*) For heat pump space heaters	and heat pu	imp combinat	ion heaters, t	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m		-	-		,	0 ( , )/:	
( )							