

#### Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

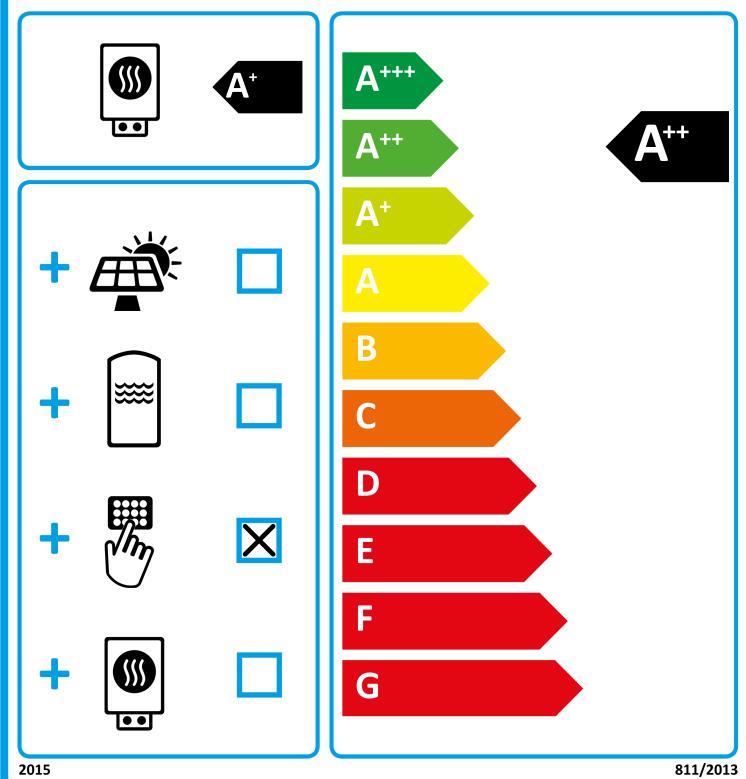
		TTL 33 HT Grundgerät
		190231
Manufacturer		tecalor
Space heating energy efficiency class under average climate conditions, medium- temperature applications		A+
Energy efficiency class, space heating under average climate conditions, low-temperature applications		A+
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	14
Rated heating output under average climate conditions for low-temperature applications (P rated)	kW	14
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\boldsymbol{\eta}s$ )	%	122
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\ensuremath{\Pi}s\xspace$ )	%	147
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	9557
Annual energy consumption under average climate conditions for low-temperature applications (QHE)	kWh/a	7663
Sound power level, indoor	dB(A)	53
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	21
Rated heating output under colder climate conditions for low-temperature applications (P rated)	kW	20
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	8
Rated heating output under warmer climate conditions for low-temperature applications (P rated)	kW	7
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications ( $\boldsymbol{\eta}s$ )	%	92
Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications ( $\boldsymbol{\eta}s$ )	%	110
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications ( $\boldsymbol{\eta}s$ )	%	163
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\ensuremath{\Pi}s\xspace$ )	%	183
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	22302
Annual energy consumption under colder climate conditions for low-temperature applications (QHE)	kWh/a	17781
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	2907
Annual energy consumption under warmer climate conditions for low-temperature applications (QHE)	kWh/a	2489
Sound power level, outdoor	dB(A)	58



# ENERGY

TTL 33 HT Grundgerät

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		TTL 33 HT Grundgerät
		190231
Manufacturer		tecalor
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\eta$ s)	%	147
Temperature control class		VI
Contribution of temperature control to space heating energy efficiency	%	4
Space heating energy efficiency of package under average climate conditions	%	126
Space heating energy efficiency of package under colder climate conditions	%	96
Space heating energy efficiency of package under warmer climate conditions	%	167
Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions	%	30
Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions	%	41
Energy efficiency class, space heating under average climate conditions, low-temperature applications		A+
Space heating energy efficiency class of package under average climate conditions		A++

### Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

Interview   Iteration     Heat source   Audendit     With audiary heater   Audendit     Combination heater with near pump.   Note and the symmetry and			TTL 33 HT Grundgerät
Item   Section   Automation     Attent beating output under coller (dimate conditions for medium- timperature applications (P reads)   KV   21     Rated heating output under average climate conditions for medium- timperature applications (P reads)   KV   21     Rated heating output under average climate conditions for medium- timperature applications (P reads)   KV   14     Itemperature applications (P reads)   KV   14     Item applications (P reads)   KV   14     Item applications (P reads)   KV   12.8     Item applications (P reads)   KV   16.6     Item applications (P reads)   KV   17.7     Item applications (P reads)   KV   11.7			190231
With audilary heater   x     Combination heater with heat prop   x     Combination heater with heat prop   x     Exter heating output under acoder climate conditions for medium- temperature applications (Printed)   kw   21     Attes heating output under acorege climate conditions for medium- temperature applications (Printed)   kw   14     Import of the acorege climate conditions for medium- temperature applications (Printed)   kw   8     Import of the acorege climate conditions for medium- temperature applications (Printed)   kw   8     Import of the acorege climate conditions for medium- temperature (Printed)   kw   7.6     Import of the acorege climate conditions for medium- conditions (PdH)   kw   7.6     Import of the acorege climate conditions for medium- conditions (PdH)   kw   7.6     Import output print and acorege climate conditions (PdH)   kw   7.6     Import output print and acorege climate conditions (PdH)   kw   13.7     Import output print and acorege climate conditions (PdH)   kw   14.3     Dual mode temperature applications (Pd)   kw   12.2     Sessonal space theating entry efficiency under average climate conditions   2.09			
Combination heater with heat pump   -     Rated Meating output under colore (limate conditions for medium- barded heating output under wereage climate conditions for medium- were stranging output under wereage climate wereage climate   W   14     Rated heating output under wereage climate conditions for medium- stranging output under wereage climate   W   12,8     1, - 7 Chapting output, partial load range under average climate   W   7,6     1, - 7 Chapting output, partial load range under average climate   W   5,6     1, - 1 and mode temperature under average climate (Pdh)   W   11,7     1, - 2 chapting output, partial load range under average climate (Pdh)   W   11,7     1, - 2 chapting output, partial load range under average climate (Pdh)   W   13,8     1, - 2 chapting output, partial load range under average climate (Pdh)   W   14,3     1, - 2 chapting output, partial load range under average climate (Pdh)   W   14,3     1, - 2 chapting output, partial load range under average climate (Pdh)   W   14,3     2, - 2 chapting output, partial load range under average clima			
New   21     Relate heating output under average climate conditions for medium- temperature applications (P relate)   KW   14     Relate heating output under average climate conditions for medium- temperature applications (P relate)   KW   18     To 2 Cheating output, partial load range under average climate conditions (Pdn)   KW   12.8     To 2 * Cheating output, partial load range under average climate conditions (Pdn)   KW   7.6     To 2 * Cheating output, partial load range under average climate conditions (Pdn)   KW   5.6     To 3 * Cheating output, partial load range under average climate conditions (Pdn)   KW   5.6     To 4 * Cheating output, partial load range under average climate conditions (Pdn)   KW   5.6     To 4 * Cheating output, partial load range under average climate conditions (Pdn)   KW   11.7     To a example observative under average climate conditions (Pdn)   KW   12.3     Daal mode temperature applications (ffs)   KW   14.3     Daal mode temperature applications (ffs)   KW   12.2     Seasonal space heating energy efficiency under average climate conditions   12.2     Conditions for medium-temperature applications (ffs)   KW   13.2     Daal mod		. <u></u>	<u> </u>
Pated heading output under average climate conditions for medium- temperature applications (P raced) kw 14   Bated heading output, partial load range under average climate conditions (Puh). kw 12,8   I = -7 C heating output, partial load range under average climate conditions (Puh). kw 5,6   I = 12 °C heating output, partial load range under average climate conditions (Puh). kw 5,6   I = 12 °C heating output, partial load range under average climate conditions (Puh). kw 6,6   I = 12 °C heating output, partial load range under average climate conditions (Puh). kw 6,6   I = dual mode temperature under average climate conditions (Puh) kw 11,7   I = aust mode temperature under average climate conditions (Puh) kw 13,8   For ar source heating memory filterioury under collitons (Puh) kw 14,3   Dual mode temperature under average climate conditions (Puh) kw 14,3   Dual mode temperature applications (Puh) % 122   Seasonal space heating networy filterioury under collitons (Puh) % 122   Conditions for medium-temperature applications (Puh) % 123   Conditions for medium-temperature applications (Puh) % 124   Conditions for medium-temperature	Rated heating output under colder climate conditions for medium-	kW	21
Pate hading upiqui upiqui upiqui (mer varmer climate conditions for medium- temperature spoilisations (P radii)   RW   8     1 = -7 C heating output, partial load range under average climate conditions (Pdh)   KW   12.8     1 = -7 C heating output, partial load range under average climate conditions (Pdh)   KW   7.6     1 = -7 C heating output, partial load range under average climate conditions (Pdh)   KW   5.6     1 = -7 C heating output, partial load range under average climate conditions (Pdh)   KW   6.6     1 = dual mode temperature under average climate conditions (Pdh)   KW   11.7     1 = dual mode temperature under average climate conditions (Pdh)   KW   11.4     Daul mode temperature under average climate conditions (Pdh)   KW   11.4     Daul mode temperature under average climate conditions (Pdh)   KW   11.4     Seasonal space heating energy efficiency under overage (climate conditions for medium-temperature under average (climate conditions (Pdh)   %   122     Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Pdh)   %   122     Seasonal space heating energy efficiency under average climate conditions for an source heat pumpers (Pdi)   %   163     1 = -7 C C COP, partial load range under a	Rated heating output under average climate conditions for medium-	kW	14
conditions (Pdh)   Km   L1.0     I = 2 °C heating output, partial load range under average climate conditions (Pdh)   KW   7.6     I = 7 °C heating output, partial load range under average climate conditions (Pdh)   KW   6.6     I = 12 °C heating output, partial load range under average climate conditions (Pdh)   KW   6.6     I = dual mode temperature limit under average climate conditions (Pdh)   KW   6.6     I = aparting temperature limit under average climate conditions (Pdh)   KW   6.6     Dual mode temperature limit under average climate conditions (Pdh)   KW   6.6     Sessonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Pah)   KW   6.13     Dual mode temperature interious under average climate conditions for medium-temperature applications (Psi)   %   92     Sessonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Psi)   %   6.63     I = - 7 °C COP, partial load range under average climate conditions (COPd)   7.9   7.9   7.9     I = - 7 °C COP, partial load range under average climate conditions (COPd)   7.1   7.2   7.2   7.2   7.2     I = - 7 °C COP, partial load range under average cl	Rated heating output under warmer climate conditions for medium-	kW	8
conditions (Pdh) No No   1 = 7 * Chealing output, partial load range under average climate kW 5.6   T = 12 * Chealing output, partial load range under average climate conditions (Pdh) kW 11.7   T = opartial temperature limit under average climate conditions (Pdh) kW 11.3   T = opartial temperature limit under average climate conditions (Pdh) kW 11.3   Dual mode temperature limit under average climate conditions (Pdh) kW 11.3   Dual mode temperature under average climate conditions (Pdh) kW 11.3   Dual mode temperature under average climate conditions (Pdh) kW 11.3   Sessonal space heating energy efficiency under coller climate % 92   conditions for medium-temperature applications (Ns) *C -5   Sessonal space heating energy efficiency under average climate % 11.2   conditions for medium-temperature applications (Ns) % 11.2   conditions for medium-temperature applications (Ns) % 12.3   conditions for medium-temperature applications (Ns) % 12.3   (CoPd) COP, partial load range under average climate conditions 2.09   T = 2 *C COP, partial load range under average climate co		kW	12,8
conditions (thd) KW 5.0   T = 12 °C Cheating output, partial load range under average climate conditions (Pdh) KW 11,7   T = operating temperature limit under average climate conditions (Pdh) KW 11,7   T = operating temperature limit under average climate conditions (Pdh) KW 11,7   T = operating temperature limit under average climate conditions (Pdh) KW 11,3   Dual mode temperature under average climate conditions (Pdh) KW 11,4   Dual mode temperature under average climate conditions (Pdh) KW 11,4   Dual mode temperature under average climate conditions (Pdh) KW 11,2   Sessonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ps) % 11,2   Seasonal space heating energy efficiency under average climate conditions (CoPd) 2,09 12,2 12,0   T = -1,7 * CCD, partial load range under average climate conditions 3,06 1,32 1,32   COP(a) 1,1,1 1,1,1 1,1,1 1,1,1 1,1,1 1,1,1   T = -1,2 * CCD, partial load range under average climate conditions 2,29 1,21 1,2,1 1,2,1 1,2,1 1,2,1 1,2,1 1,2,1 1,2		kW	7,6
conditions (Pdh) KW 0.0   I] = dual mode temperature under average climate conditions (Pdh) KW 11,7   I] = operating temperature under average climate conditions (Pdh) KW 11,8   Dual mode temperature under average climate conditions (Pdh) KW 11,3   Dual mode temperature under average climate conditions (Tbi) °C .5   Sessonal space heating energy efficiency under colder climate conditions for medium-temperature applications (Ifs) % .92   Sessonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ifs) % .122   Sessonal space heating energy efficiency under vareage climate conditions (Cord) .2,09 .06 .02   T] = -7 °C COP, partial load range under average climate conditions (COrd) .3,06 .3,06 .3,06   T] = -7 °C COP, partial load range under average climate conditions (COPd) .2,31 .3,151 .3,151   T] = -7 °C COP, partial load range under average climate conditions (COPd) .2,11 .3,151 .3,151   T] = -7 °C COP, partial load range under average climate conditions (COPd) .2,11 .3,151 .3,151   T] = -3 °C COP, partial load range under average climate conditions (COPd) .2,11 .3,151 .3,151		kW	5,6
I = operating temperature limit under average climate conditions (Pdh) kW 13.8   For air source heat pumps: Tj = 15°C (df TOL < 20°C) (Pdh)		kW	6,6
For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (Pdh)			· · · ·
Dual mode temperature under average climate conditions (Tbiv)   °C   .5     Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (fps)   %   92     Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (fps)   %   122     Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (fps)   %   163     19 = -7 °C COP, partial load range under average climate conditions (COPd)   2,09   2,09     T] = -7 °C COP, partial load range under average climate conditions (COPd)   3,06   3,06     T] = -7 °C COP, partial load range under average climate conditions (COPd)   2,31   3,06     T] = 12 °C COP, partial load range under average climate conditions (COPd)   2,31   1,51     T] = operating temperature under average climate conditions (COPd)   2,31   1,51     T] = operating temperature limit of heating water under average climate conditions (WTOL)   0   75     Power consumption, off-mode (Pdf)   W   7     Power consumption, standby state (PSB)   W   7     Power consumption, standby state (PSB)   W   7     Power consumption, outder colder climate cond			· .
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (fls) 96 92   Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (fls) %6 1122   Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (fls) %6 163   Conditions for medium-temperature applications (fls) %6 163   Tj = 7 * C COP, partial load range under average climate conditions (COPd) 2,09 3,06   Tj = 7 * C COP, partial load range under average climate conditions (COPd) 3,06 3,06   Tj = 1 * C COP, partial load range under average climate conditions (COPd) 4,32 3,79,00   Tj = 1 * C COP, partial load range under average climate conditions (COPd) 579,00 2,31   Tj = operating temperature limit under average climate conditions (COPd) 1,51 2,579,00   COP artial load range under average climate conditions (COPd) 2,31 1,51   For air source heat pumps: Tj = -15 *C (if TOL<-20 *C) (COPd)		· · · · · · · · · · · · · · · · · · ·	
conditions for medium-temperature applications (hs) % 92   Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (hs) % 112   Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (hs) % 163   T = -7 °C COP, partial load range under average climate conditions (COPd) 2.09 2.09   T = 1 °C COP, partial load range under average climate conditions (COPd) 3.06 3.06   T = 1 °C COP, partial load range under average climate conditions (COPd) 4.32 3.79,00   T = 1 °C COP, partial load range under average climate conditions (COPd) 2.31 75,900   T = 1 a °C COP, partial load range under average climate conditions (COPd) 2.31 1.51   T = aual mode temperature limit under average climate conditions (COPd) 2.11 0perating temperature limit of heating water under average climate conditions (COPd) 2.11   Operating temperature limit of heating water under average climate conditions (VTOL) % 75   Fower consumption, off-mode (Poff) W 7   Power consumption, off-mode (PTO) W 7   Power consumption, operating state, with crankcase heating (PCK) W 62   Rated heating output of auxiliary heater u		°C	-5
conditions for medium-temperature applications (f)s) % 1122   Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (f)s) % 163   TJ = -7 °C COP, partial load range under average climate conditions (COPd) 2,09 3,06   TJ = -7 °C COP, partial load range under average climate conditions (COPd) 3,06 3,06   TJ = 7 °C COP, partial load range under average climate conditions (COPd) 4,32 3,20   TJ = 1 °C COP, partial load range under average climate conditions (COPd) 579,00 3,90   TJ = 1 °C COP, partial load range under average climate conditions (COPd) 2,31 1,51   TJ = operating temperature limit under average climate conditions (COPd) 1,51 1,51   TJ = operating temperature limit of heating water under average climate conditions (WTOL) 0,75 75   Power consumption, off-mode (PDf) W 77   Power consumption, operating state, with crankcase heating (PCK) W 77   Power consumption, operating state, with crankcase heating (PCK) W 62   Rated heating output of auxiliary heater elektrisch 0.6   Output control dB(A) 58   Sound power level, indoor dB(A) 53	conditions for medium-temperature applications (ηs)	%	92
conditions for medium-temperature applications (fts) 70 1103   Tj = -7 °C COP, partial load range under average climate conditions 2,09   (COPd) 3.06   Tj = 2 °C COP, partial load range under average climate conditions 3.06   (COPd) 4,32   Tj = 12 °C COP, partial load range under average climate conditions 4,32   (COPd) 579,00   Tj = 12 °C COP, partial load range under average climate conditions 579,00   (COPd) 2,31   Tj = operating temperature limit under average climate conditions 1,51   (COPd) 2,11   Operating temperature limit of heating water under average climate conditions (WTOL) 2,11   Operating temperature limit of heating water under average climate or or consumption, off-mode (Poff) W   Power consumption, off-mode (Poff) W 77   Power consumption, standby state (PSB) W 70   Power consumption, operating state, with crankcase heating (PCK) W 62   Sound power level, outdoor dB(A) 58   Sound power level, outdoor dB(A) 53   Annual energy consumption under colder climate conditions for medium-temperature applications (OHE) kWh/a	conditions for medium-temperature applications (ηs)	%	122
(COPd) 21/9   Tj = 2 °C COP, partial load range under average climate conditions 3.06   (COPd) 4.32   Tj = 12 °C COP, partial load range under average climate conditions 4.32   (COPd) 4.32   Tj = 12 °C COP, partial load range under average climate conditions 579,00   (COPd) 2.31   Tj = operating temperature under average climate conditions 1.51   (COPd) 1.51   For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)	conditions for medium-temperature applications (ηs)	%	163
COPd)SumTj = 7 °C COP, partial load range under average climate conditions4,32(COPd)1 = 12 °C COP, partial load range under average climate conditions579,00Tj = 12 °C COP, partial load range under average climate conditions2,31(COPd)2,31Tj = operating temperature limit under average climate conditions1,51(COPd)2,11Operating temperature limit of heating water under average climate°C7575Power consumption, off-mode (Poff)WPower consumption, fir-mode (Poff)WPower consumption, standby state (PSB)WPower consumption, operating state, with crankcase heating (PCK)WRated heating output of auxiliary heater under average climate conditions (FSUP)0,6Type of energy supply, auxiliary heaterelektrischOutput controlGB(A)58Sound power level, outdoorGB(A)53Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a22307Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2907	(COPd)		2,09
(COPd)4.32Tj = 12 °C COP, partial load range under average climate conditions (COPd)579,00Tj = dual mode temperature under average climate conditions (COPd)2.31Tj = operating temperature limit under average climate conditions (COPd)1.51For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)	(COPd)		3,06
ST9:00Tj = dual mode temperature under average climate conditions (COPd)2.31Tj = operating temperature limit under average climate conditions1.51For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)	(COPd)		4,32
Tj = operating temperature limit under average climate conditions (COPd) 1,51   For air source heat pumps: Tj = 15 °C (if TOL< -20 °C) (COPd)	(COPd)		· · · · · · · · · · · · · · · · · · ·
I.51For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)			2,31
Operating temperature limit of heating water under average climate conditions (WTOL)°C75Power consumption, off-mode (Poff)W7Power consumption, thermostat off-mode (PTO)W7Power consumption, standby state (PSB)W7Power consumption, operating state, with crankcase heating (PCK)W62Rated heating output of auxiliary heater under average climate conditions (PSUP)KW0.6Type of energy supply, auxiliary heaterelektrischOutput controlfestSound power level, outdoordB(A)58Sound power level, indoordB(A)53Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a22302Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2907	(COPd)		
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Power consumption, thermostat off-mode (PTO)W7Power consumption, standby state (PSB)W7Power consumption, operating state, with crankcase heating (PCK)W62Rated heating output of auxiliary heater under average climate conditions (PSUP)KW0,6Type of energy supply, auxiliary heaterelektrischOutput controlfestSound power level, outdoordB(A)58Sound power level, indoordB(A)53Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a22302Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2907	conditions (WTOL)		
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Rated heating output of auxiliary heater under average climate conditions (PSUP)kW0,6Type of energy supply, auxiliary heaterelektrischOutput controlfestSound power level, outdoordB(A)Sound power level, indoordB(A)Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/aAnnual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/aAnnual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/aAnnual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/aAnnual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/aAnnual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a			
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Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a22302Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a9557Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a2907	Sound power level, outdoor	dB(A)	58
medium-temperature applications (QHE)kWn/a22302Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a9557Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a2907	Sound power level, indoor		53
medium-temperature applications (QHE)kWn/a9557Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a2907		kWh/a	22302
medium-temperature applications (QHE)		kWh/a	9557
Flow rate on heat source side m <sup>3</sup> /h 3500		kWh/a	2907
	Flow rate on heat source side	m³/h	3500