

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

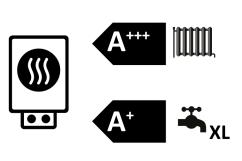
Manufacturer  Load profile  Space heating energy efficiency class under average climate conditions, medium-temperature applications  Energy efficiency class, space heating under average climate conditions, low-temperature applications  Energy efficiency class, DHW heating under average climate conditions  Rated heating output under average climate conditions for medium-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Annual energy consumption under average climate conditions for medium-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC)  Event Manual power consumption under average climate conditions (AEC)  Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Pis)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Pis)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)	91115 ecalor XL A+++
Load profile  Space heating energy efficiency class under average climate conditions, medium-temperature applications  Energy efficiency class, space heating under average climate conditions, low-temperature applications  Energy efficiency class, DHW heating under average climate conditions  Rated heating output under average climate conditions for medium-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Annual energy consumption under average climate conditions for medium-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC)  Events of the profit of the	XL A+++
Space heating energy efficiency class under average climate conditions, medium-temperature applications  Energy efficiency class, space heating under average climate conditions, low-temperature applications  Energy efficiency class, DHW heating under average climate conditions  Rated heating output under average climate conditions for medium-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC)  Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ns)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ns)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ns)  Energy efficiency, DHW heating (Nh), under average climate conditions  Sound power level, indoor  dB(A)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	A+++
medium-temperature applications  Energy efficiency class, space heating under average climate conditions, low-temperature applications  Energy efficiency class, DHW heating under average climate conditions  Rated heating output under average climate conditions for medium-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Annual energy consumption under average climate conditions for medium-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC)  Easonal space heating energy efficiency under average climate conditions for medium-temperature applications (\Pais)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (\Pais)  Energy efficiency, DHW heating (\Paish), under average climate conditions  Sound power level, indoor  dB(A)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	
Iow-temperature applications         Energy efficiency class, DHW heating under average climate conditions         Rated heating output under average climate conditions for medium-temperature applications (P rated)         Rated heating output under average climate conditions for low-temperature applications (P rated)         Annual energy consumption under average climate conditions for medium-temperature applications (QHE)         Annual energy consumption under average climate conditions for low-temperature applications (QHE)         Annual power consumption under average climate conditions (AEC)       kWh (and the provided of the provide	A+++
Rated heating output under average climate conditions for medium-temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Annual energy consumption under average climate conditions for medium-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC)  Annual power consumption under average climate conditions (AEC)  Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ns)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ns)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ns)  Seasonal space heating energy efficiency under average climate which is a specific energy efficiency under average climate conditions for low-temperature applications (Ns)  Seasonal space heating energy efficiency under average climate which is a specific energy efficiency under average climate conditions for low-temperature applications (Prated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	
temperature applications (P rated)  Rated heating output under average climate conditions for low-temperature applications (P rated)  Annual energy consumption under average climate conditions for medium-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC) kWh 133  Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ŋs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ŋs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ŋs)  Energy efficiency, DHW heating (Ŋwh), under average climate conditions %  Sound power level, indoor dB(A)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	A+
temperature applications (P rated)  Annual energy consumption under average climate conditions for medium-temperature applications (QHE)  Annual energy consumption under average climate conditions for low-temperature applications (QHE)  Annual power consumption under average climate conditions (AEC) kWh 133  Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ŋs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ŋs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (Ŋs)  Energy efficiency, DHW heating (Ŋwh), under average climate conditions %  Sound power level, indoor dB(A)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	10
medium-temperature applications (QHE)       kWh/a         Annual energy consumption under average climate conditions for low-temperature applications (QHE)       kWh         Annual power consumption under average climate conditions (AEC)       kWh         Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)       %         Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (ηs)       %         Energy efficiency, DHW heating (ηwh), under average climate conditions       %         Sound power level, indoor       dB(A)         Rated heating output under colder climate conditions for medium-temperature applications (P rated)       kW         Rated heating output under colder climate conditions for low-temperature applications (P rated)       kW         Rated heating output under warmer climate conditions for medium-temperature applications (P rated)       kW	11
temperature applications (QHE)  Annual power consumption under average climate conditions (AEC) kWh 133  Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (ηs)  Energy efficiency, DHW heating (ηwh), under average climate conditions %  Sound power level, indoor dB(A)  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	5046
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (ηs)  Energy efficiency, DHW heating (ηwh), under average climate conditions  Sound power level, indoor  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-kW  Rated heating output under warmer climate conditions for medium-kW	4337
conditions for medium-temperature applications (ηs)  Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (ηs)  Energy efficiency, DHW heating (ηwh), under average climate conditions  Sound power level, indoor  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-	26,000
conditions for low-temperature applications (ηs)       76         Energy efficiency, DHW heating (ηwh), under average climate conditions       %         Sound power level, indoor       dB(A)         Rated heating output under colder climate conditions for medium-temperature applications (P rated)       kW         Rated heating output under colder climate conditions for low-temperature applications (P rated)       kW         Rated heating output under warmer climate conditions for medium-       kW	160
Sound power level, indoor  Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-kW	208
Rated heating output under colder climate conditions for medium-temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-kW	123
temperature applications (P rated)  Rated heating output under colder climate conditions for low-temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-kw	40
temperature applications (P rated)  Rated heating output under warmer climate conditions for medium-	10
S . KW	11
temperature applications (P rated)	10
Rated heating output under warmer climate conditions for low-temperature applications (P rated) kW	11
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE) kWh/a	5896
Annual energy consumption under colder climate conditions for low-temperature applications (QHE)	5007
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE) kWh/a	3269
Annual energy consumption under warmer climate conditions for low-temperature applications (QHE) kWh/a	2811
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)	163
Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications ( $\eta$ s)	215
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)	159
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )	208
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta$ s)	208
Sound power level, outdoor dB(A)	0

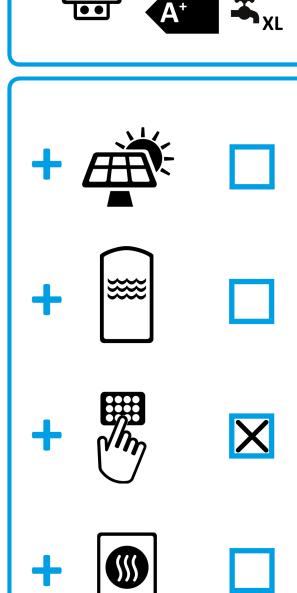


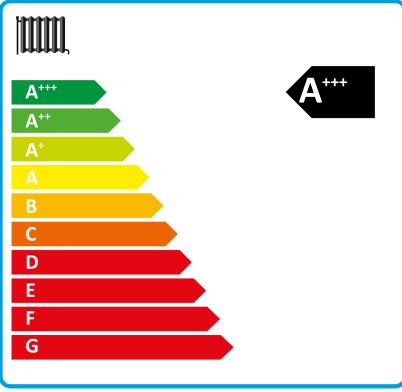
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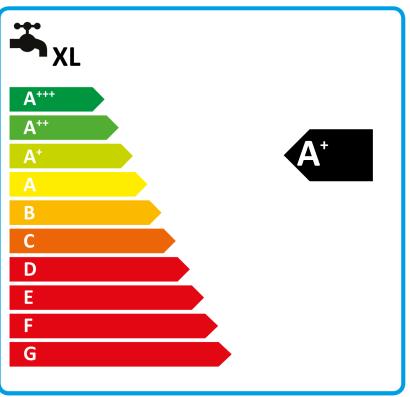
## tecalor

TTC 12.1 230 comfort









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

		TTC 12.1 230 comfort
		191115
Manufacturer		tecalor
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta s)$	%	160
Temperature control class		II
Contribution of temperature control to space heating energy efficiency	%	2
Space heating energy efficiency class under average climate conditions, medium-temperature applications		A+++
Space heating energy efficiency class of package under average climate conditions		A+++
Energy efficiency class, DHW heating under average climate conditions		A+
Load profile		XL

		TTC 12.1 230 comfort
		191115
Manufacturer		tecalor
Heat source		Sole
Low temperature heat pump	-	<u>.                                      </u>
With auxiliary heater		x
Combination heater with heat pump		
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under average climate conditions for medium-temperature applications (P rated)	kW	10
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	10
Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	6,2
Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)	kW	9,0
Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)	kW	3,8
Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)	kW	5,5
Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	10,2
Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2,7
Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)	kW	3,5
Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	6,6
Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2,7
Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)	kW	2,7
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	2,9
Tj = operating temperature limit under colder climate conditions (Pdh)	kW	10,2
Tj = operating temperature limit under average climate conditions (Pdh)	kW	10,2
Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	10,2
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications ( $\eta$ s)	%	163
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta_s$ )	%	160
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications ( $\eta$ s)	%	159
Tj = -7 °C COP, partial load range under colder climate conditions (COPd)		4,00
Tj = -7 °C COP, partial load range under average climate conditions (COPd)		3,36
Tj = 2 °C COP, partial load range under colder climate conditions (COPd)		4,70
Tj = 2 °C COP, partial load range under average climate conditions (COPd)		4,30
Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)		2,93
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		4,85
Tj = 7 °C COP, partial load range under average climate conditions (COPd)		4,71
Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)		3,82
Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		4,86
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		4,77
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		4,99
Tj = operating temperature limit under colder climate conditions (COPd)		2,93
Tj = operating temperature limit under average climate conditions (COPd)		2,93
Tj = operating temperature limit under warmer climate conditions (COPd)		2,93
Power consumption, off-mode (Poff)	W	17
Power consumption, standby state (PSB)	W	17
Type of energy supply, auxiliary heater		elektrisch
Sound power level, outdoor	dB(A)	0
Sound power level, indoor	dB(A)	40
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	5896
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	5046
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	3269
Flow rate on heat source side	m³/h	2
Load profile	-	XL
Daily power consumption under average climate conditions (QELEC)	kWh	6,224
Annual power consumption under average climate conditions (AEC)	kWh	1326,000
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )	%	208
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