

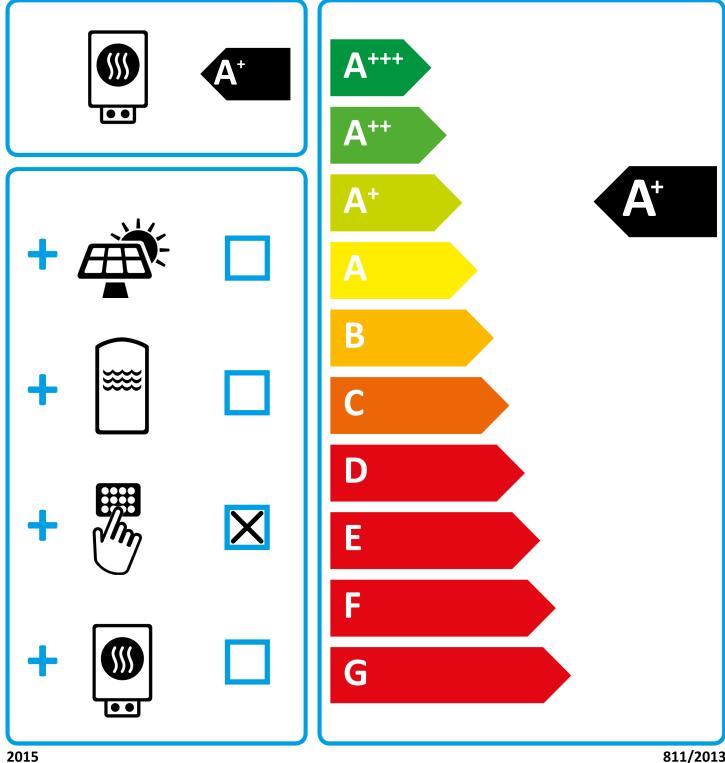
Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

		TTL 4.5 ACS
		190494
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	4
Rated heating output under average climate conditions for low-temperature applications (P rated)	kW	5
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (η s)	%	116
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (η s)	%	163
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	2618
Annual energy consumption under average climate conditions for low-temperature applications (QHE)	kWh/a	2265
Option for operation only at off-peak times		-
Rated heating output under colder climate conditions for medium-temperature applications (P rated)	kW	5
Rated heating output under colder climate conditions for low-temperature applications (P rated)	kW	4
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	4
Rated heating output under warmer climate conditions for low-temperature applications (P rated)	kW	3
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (η s)	%	105
Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications (η s)	%	150
Seasonal space heating energy efficiency under warmer climate conditions for medium- temperature applications (Ŋs)	%	139
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (η s)	%	206
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	4884
Annual energy consumption under colder climate conditions for low-temperature applications (QHE)	kWh/a	2757
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	1467
Annual energy consumption under warmer climate conditions for low-temperature applications (QHE)	kWh/a	889
Sound power level, outdoor	dB(A)	52



ENERGY

TTL 4.5 ACS



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		190494
Manufacturer		tecalor
Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (η s)	%	163
Temperature control class		VI
Contribution of temperature control to space heating energy efficiency	%	4
Space heating energy efficiency of package under average climate conditions	%	120
Space heating energy efficiency of package under colder climate conditions	%	109
Space heating energy efficiency of package under warmer climate conditions	%	143
Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions	%	8
Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions	%	26
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+

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		TTL 4.5 ACS
		190494
Manufacturer		tecalor
Heat source		Außenluft
Low temperature heat pump		<u> </u>
With auxiliary heater		<u> </u>
Combination heater with heat pump		-
Rated heating output under colder climate conditions for medium- temperature applications (P rated)	kW	5
Rated heating output under average climate conditions for medium- temperature applications (P rated)	kW	4
Rated heating output under warmer climate conditions for medium- temperature applications (P rated)	kW	4
Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	3,2
Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)	kW	3,4
Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2,0
Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)	kW	2,0
Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	3,9
Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2,5
Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)	kW	1,3
Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	1,3
Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)	kW	1,5
Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)	kW	1,5
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	1,5
Tj = dual mode temperature under colder climate conditions (Pdh)	kW	3,8
Tj = dual mode temperature under average climate conditions (Pdh)	kW	3,0
Tj = dual mode temperature under warmer climate conditions (Pdh)	kW	4,0
Tj = operating temperature limit under colder climate conditions (Pdh)	kW	3,2
Tj = operating temperature limit under average climate conditions (Pdh)	kW	3,4
Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	3,9
For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (Pdh)	kW	0,0
Dual mode temperature under colder climate conditions (Tbiv)	°C	-10
Dual mode temperature under average climate conditions (Tbiv)	°C	-5
Dual mode temperature under warmer climate conditions (Tbiv)	°C	2
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (η s)	%	105
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (η s)	%	116
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (η s)	%	139
Tj = -7 °C COP, partial load range under colder climate conditions (COPd)		2,28
Tj = -7 °C COP, partial load range under average climate conditions (COPd)		2,05
Tj = 2 °C COP, partial load range under colder climate conditions (COPd)		3,40
Tj = 2 °C COP, partial load range under average climate conditions (COPd)		2,94
Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)		2,13
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		4,66
Tj = 7 °C COP, partial load range under average climate conditions (COPd)		4,13

Ti = 12 °C COP, partial load range under verage climate conditions 6,65 (COPd) 5,97 Ti = 12 °C COP, partial load range under verage climate conditions 5,97 Ti = 12 °C COP, partial load range under warmer climate conditions 5,15 COPd) 2,09 Ti = 4 all mode temperature under colder climate conditions (COPd) 2,15 Ti = dual mode temperature under average climate conditions (COPd) 2,13 Ti = operating temperature limit under overage climate conditions (COPd) 2,28 Ti = operating temperature limit under average climate conditions (COPd) 2,28 Ti = operating temperature limit under average climate conditions (COPd) 2,13 Ti = operating temperature limit under average climate conditions (COPd) 0,00 Operating temperature limit under average climate conditions (TOL) °C Operating temperature limit under average climate conditions (TOL) °C Operating temperature limit of heating water under average climate conditions (TOL) °C Operating temperature limit of heating water under average climate conditions (TOL) °C Operating temperature limit of heating water under average climate conditions (TOL) °C Operating temperature limit of heating water under average climate °C Operating temperature limit of heating water under average climate conditions (TOL) °C Operating temperature limit of heating	Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)		3,25
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ICOP() 31.19 Ij = dual mode temperature under colder climate conditions (COPd) 2,15 Ij = dual mode temperature under average climate conditions (COPd) 2,13 Ij = operating temperature limit under colder climate conditions (COPd) 2,28 Ij = operating temperature limit under average climate conditions (COPd) 2,28 Ij = operating temperature limit under average climate conditions (COPd) 2,28 Ij = operating temperature limit under average climate conditions (COPd) 2,00 Ij = operating temperature limit under average climate conditions (COPd) 0,00 Operating temperature limit under colder climate conditions (TOL) °C Operating temperature limit under average climate conditions (TOL) °C Operating temperature limit onder average climate conditions (TOL) °C Operating temperature limit onder average climate conditions (TOL) °C Operating temperature limit of heating water under average climate °C Conditions (WTOL) °C 2 Operating temperature limit of heating water under average climate °C Conditions (WTOL) °C 60 Operating temperature limit of heating water under average climate conditions °C Operating temperature limit of heating water under average c			5,97
IJ = dual mode temperature under average climate conditions (COPd) 2.15 IJ = dual mode temperature under warmer climate conditions (COPd) 2.13 IJ = operating temperature limit under average climate conditions (COPd) 2.28 IJ = operating temperature limit under average climate conditions (COPd) 2.05 (COPd) 2.01 For air source heat pumps: TJ = -15 °C (if TOL < -20 °C) (COPd)			5,15
I) = dual mode temperature under warmer climate conditions (COPd) 2.13 I) = operating temperature limit under colder climate conditions 2.05 I) = operating temperature limit under average climate conditions 2.05 I) = operating temperature limit under average climate conditions 2.13 (COPd) 2.13 For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)	Tj = dual mode temperature under colder climate conditions (COPd)		2,09
I = operating temperature limit under colder climate conditions (COPd) 2.28 I = operating temperature limit under average climate conditions (COPd) 2.05 T = operating temperature limit under average climate conditions (COPd) 2.13 For air source heat pumps: T = -15 *C (if TOL < -20 *C) (COPd)	Tj = dual mode temperature under average climate conditions (COPd)		2,15
Tj = operating temperature limit under average climate conditions 2.05 (COPd) 2.13 For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)	Tj = dual mode temperature under warmer climate conditions (COPd)		2,13
(COPd) 2.03 TJ = operating temperature limit under warmer climate conditions 2.13 For air source heat pumps: TJ = -15 °C (if TOL < -20 °C) (COPd)	Tj = operating temperature limit under colder climate conditions (COPd)		2,28
(COPd)21.13For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)			2,05
Operating temperature limit under colder climate conditions (TOL)°C-15Operating temperature limit under average climate conditions (TOL)°C-5Operating temperature limit under warmer climate conditions (TOL)°C2Operating temperature limit of heating water under colder climate conditions (WTOL)°C17Operating temperature limit of heating water under average climate conditions (WTOL)°C60Operating temperature limit of heating water under average climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Power consumption, off-mode (Poff)W117Power consumption, off-mode (PSB)W117Power consumption, operating state, with crankcase heating (PCK)W5Rated heating output of auxiliary heater under average climate conditions (PSUP)KW5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW0,0Type of energy supply, auxiliary heater output of auxiliary heater under conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618			2,13
Operating temperature limit under average climate conditions (TOL)*C-5Operating temperature limit of heating water under colder climate conditions (WTOL)*C2Operating temperature limit of heating water under colder climate conditions (WTOL)*C17Operating temperature limit of heating water under average climate conditions (WTOL)*C60Operating temperature limit of heating water under average climate conditions (WTOL)*C60Operating temperature limit of heating water under average climate conditions (WTOL)*C60Operating temperature limit of heating water under warmer climate conditions (WTOL)*C60Operating temperature limit of heating water under warmer climate conditions (WTOL)*C60Power consumption, off-mode (POff)W17Power consumption, standby state (PSB)W17Power consumption, standby state (PSB)W17Power consumption, ot auxiliary heater under colder climate conditions (PSUP)W55Rated heating output of auxiliary heater under average climate conditions (PSUP)KW3.8Rated heating output of auxiliary heater under average climate conditions (PSUP)w0.0Type of energy supply, auxiliary heaterelektrisch0.0Output controlVeränderlich52Annual energy consumption under average climate conditions for medium-temperature applications (OHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (OHE)kWh/a2618	For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)		0,00
Operating temperature limit under warmer climate conditions (TOL)°C2Operating temperature limit of heating water under colder climate conditions (WTOL)°C17Operating temperature limit of heating water under average climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Power consumption, off-mode (Poff)W17Power consumption, infermode (PTO)W30Power consumption, operating state, with crankcase heating (PCK)W55Rated heating output of auxiliary heater under colder climate conditions (PSUP)W5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)elektrischType of energy supply, auxiliary heaterdB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a1467	Operating temperature limit under colder climate conditions (TOL)	°C	-15
Operating temperature limit of heating water under colder climate conditions (WTOL)°C17Operating temperature limit of heating water under average climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Operating temperature limit of heating water under warmer climate conditions (WTOL)°C60Power consumption, off-mode (Poff)W11Power consumption, thermostat off-mode (PTO)W30Power consumption, standby state (PSB)W117Power consumption, operating state, with crankcase heating (PCK)W5Rated heating output of auxiliary heater under colder climate conditions (PSUP)W5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)W3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)W0,0Type of energy supply, auxiliary heaterelektrisch0,0Output controldB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a1467	Operating temperature limit under average climate conditions (TOL)	°C	-5
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conditions (WTOL)C00Power consumption, off-mode (Poff)W17Power consumption, thermostat off-mode (PTO)W30Power consumption, standby state (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Rated heating output of auxiliary heater under colder climate conditions (PSUP)KW5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)kW0,0Type of energy supply, auxiliary heaterkW0,0Output controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a1467		°C	60
Power consumption, thermostat off-mode (PTO)W30Power consumption, standby state (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Rated heating output of auxiliary heater under colder climate conditions (PSUP)KW5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)KW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)KW0,0Rated heating output of auxiliary heater under warmer climate conditions (PSUP)KW0,0Type of energy supply, auxiliary heaterelektrischOutput controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467		°C	60
Power consumption, standby state (PSB)W17Power consumption, operating state, with crankcase heating (PCK)W5Rated heating output of auxiliary heater under colder climate conditions (PSUP)kW5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)kW0,0Rated heating output of auxiliary heater under warmer climate conditions (PSUP)kW0,0Type of energy supply, auxiliary heaterelektrisch0,0Output controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467	Power consumption, off-mode (Poff)	W	17
Power consumption, operating state, with crankcase heating (PCK)W5Rated heating output of auxiliary heater under colder climate conditionskW5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)kW0,0Type of energy supply, auxiliary heater0,00,0Type of energy supply, auxiliary heaterelektrischOutput controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467	Power consumption, thermostat off-mode (PTO)	W	30
Rated heating output of auxiliary heater under colder climate conditionskW5,5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3,8Rated heating output of auxiliary heater under warmer climate conditions (PSUP)kW0,0Type of energy supply, auxiliary heaterelektrisch0,0Output controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467	Power consumption, standby state (PSB)	W	17
(PSUP)KW5.5Rated heating output of auxiliary heater under average climate conditions (PSUP)kW3.8Rated heating output of auxiliary heater under warmer climate conditions (PSUP)kW0.0Type of energy supply, auxiliary heaterelektrischOutput controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467	Power consumption, operating state, with crankcase heating (PCK)	W	5
conditions (PSUP)KW3,8Rated heating output of auxiliary heater under warmer climate conditions (PSUP)kW0,0Type of energy supply, auxiliary heater0,0Type of energy supply, auxiliary heaterelektrischOutput controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467		kW	5,5
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Output controlveränderlichSound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467		kW	0,0
Sound power level, outdoordB(A)52Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467	Type of energy supply, auxiliary heater		elektrisch
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medium-temperature applications (QHE)kWh/a4884Annual energy consumption under average climate conditions for medium-temperature applications (QHE)kWh/a2618Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)kWh/a1467	Sound power level, outdoor	dB(A)	52
medium-temperature applications (QHE) kWn/a 2618 Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE) kWh/a 1467		kWh/a	4884
medium-temperature applications (QHE)		kWh/a	2618
Flow rate on heat source side m ³ /h 1300		kWh/a	1467
	Flow rate on heat source side	m³/h	1300