

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

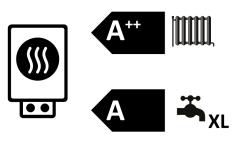
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conditions for medium-temperature applications (ηs)%115Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications (ηs)%155Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)%141Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%207Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%84Energy efficiency, DHW heating (ηwh), warmer climates%145	Annual power consumption under warmer climate conditions (AEC)	kWh	1183,000
conditions for low-temperature applications (ηs)%155Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)%141Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%207Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%84Energy efficiency, DHW heating (ηwh), warmer climates%145	, , ,	%	115
conditions for medium-temperature applications (ηs)%141Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%207Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%84Energy efficiency, DHW heating (ηwh), warmer climates%145		%	155
conditions for low-temperature applications (ηs)%207Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs)%84Energy efficiency, DHW heating (ηwh), warmer climates%145		%	141
conditions for low-temperature applications (ηs)%Energy efficiency, DHW heating (ηwh), warmer climates%145		%	207
37 7. 311 %	, , ,	%	84
Sound power level, outdoor dB(A) 52	Energy efficiency, DHW heating (ηwh), warmer climates	%	145
	Sound power level, outdoor	dB(A)	52

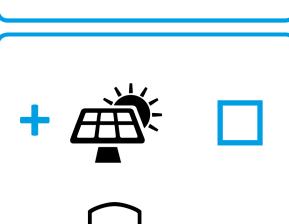


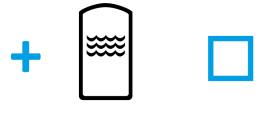
ENERG Y (JA) ehepгия · ενεργεια (Ε) (ΙΑ)

tecalor

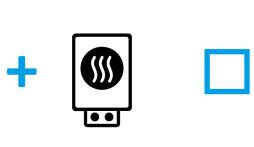
THZ 5.1 IBC topline

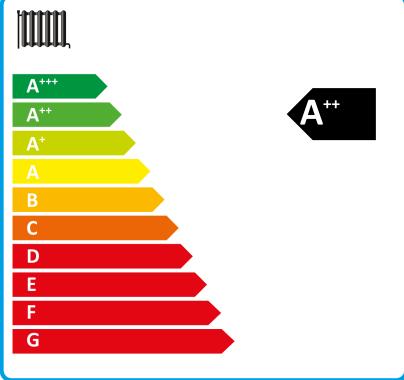


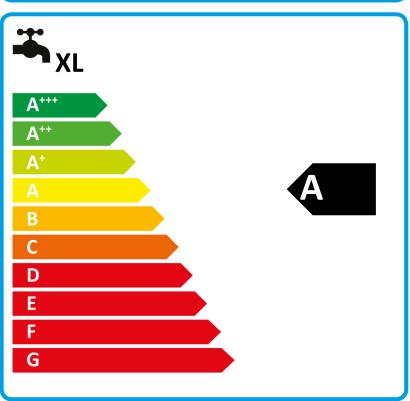












Product datasheet: Combination heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

		THZ 5.1 IBC topline
		190945
Manufacturer		tecalor
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (\ensuremath{N} s)	%	128
Temperature control class		VI
Contribution of temperature control to space heating energy efficiency	%	4
Space heating energy efficiency of package under average climate conditions	%	132
Space heating energy efficiency of package under colder climate conditions	%	107
Space heating energy efficiency of package under warmer climate conditions	%	153
Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions	%	13
Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions	%	13
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

		THZ 5.1 IBC topline
		190945
Manufacturer		tecalor
Heat source	•	Luft
Low temperature heat pump		x
With auxiliary heater	•	x
Combination heater with heat pump		x
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	5
Rated heating output under warmer climate conditions for medium-temperature applications (P rated)	kW	3
Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	5,3
Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)	kW	4,9
Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)	kW	3,3
Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)	kW	3,0
Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	6,9
Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)	kW	2,8
Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)	kW	2,2
Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	4,5
Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)	kW	3,2
Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)	kW	3,2
Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)	kW	3,2
Tj = dual mode temperature under colder climate conditions (Pdh)	kW	5,3
Tj = dual mode temperature under average climate conditions (Pdh)	kW	4,9
Tj = dual mode temperature under warmer climate conditions (Pdh)	kW	6,9
Tj = operating temperature limit under colder climate conditions (Pdh)	kW	3,3
Tj = operating temperature limit under average climate conditions (Pdh)	kW	4,6
Tj = operating temperature limit under warmer climate conditions (Pdh)	kW	6,9
For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (Pdh)	kW	4,1
Dual mode temperature under colder climate conditions (Tbiv)	°C	-7
Dual mode temperature under average climate conditions (Tbiv)	°C	-7
Dual mode temperature under warmer climate conditions (Tbiv)	°C	2
Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)	%	115
Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (Ns)	%	128
Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (Ŋs)	%	141
Tj = -7 °C COP, partial load range under colder climate conditions (COPd)		2,52
Tj = -7 °C COP, partial load range under average climate conditions (COPd)		2,24
Tj = 2 °C COP, partial load range under colder climate conditions (COPd)		3,50
Tj = 2 °C COP, partial load range under average climate conditions (COPd)		3,13
Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)	•	2,50
Tj = 7 °C COP, partial load range under colder climate conditions (COPd)		4,56
Tj = 7 °C COP, partial load range under average climate conditions (COPd)		4,19
Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)		3,28
Tj = 12 °C COP, partial load range under colder climate conditions (COPd)		5,59
Tj = 12 °C COP, partial load range under average climate conditions (COPd)		5,32
Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)		4,98
Tj = dual mode temperature under colder climate conditions (COPd)		2,52
Tj = dual mode temperature under average climate conditions (COPd)		2,24
Tj = dual mode temperature under warmer climate conditions (COPd)		2,50
Tj = operating temperature limit under colder climate conditions (COPd)		1,61
Tj = operating temperature limit under average climate conditions (COPd)		2,08
Tj = operating temperature limit under warmer climate conditions (COPd)		2,50
For air source heat pumps: Tj = -15 °C (if TOL< -20 °C) (COPd)		2,05
Operating temperature limit under colder climate conditions (TOL)	°C	-22
Operating temperature limit under average climate conditions (TOL)	°C	-10
Operating temperature limit under warmer climate conditions (TOL)	°C	2
Operating temperature limit of heating water under colder climate conditions (WTOL)	°C	63
Operating temperature limit of heating water under average climate conditions (WTOL)	°C	60

Operating temperature limit of heating water under warmer climate conditions (WTOL)	°C	75
Power consumption, off-mode (Poff)	W	19
Power consumption, thermostat off-mode (PTO)	W	15
Power consumption, standby state (PSB)	w	19
Power consumption, operating state, with crankcase heating (PCK)	w	2
Rated heating output of auxiliary heater under colder climate conditions (PSUP)	kW	2,4
Rated heating output of auxiliary heater under average climate conditions (PSUP)	kW	0,8
Rated heating output of auxiliary heater under warmer climate conditions (PSUP)	kW	3,5
Type of energy supply, auxiliary heater		elektrisch
Output control	<u> </u>	veränderlich
Sound power level, outdoor	dB(A)	52
Sound power level, indoor	dB(A)	53
Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)	kWh/a	4228
Annual energy consumption under average climate conditions for medium-temperature applications (QHE)	kWh/a	3433
Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)	kWh/a	1134
Load profile		XL
Daily power consumption under average climate conditions (QELEC)	kWh	6,350
Annual power consumption under colder climate conditions (AEC)	kWh	2042,000
Annual power consumption under average climate conditions (AEC)	kWh	1676,000
Annual power consumption under warmer climate conditions (AEC)	kWh	1183,000
Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (η s)	%	84
Energy efficiency, DHW heating (Ŋwh), under average climate conditions	%	102
Energy efficiency, DHW heating (Ŋwh), warmer climates	%	145