

IV Produkt
 Sjöuddevägen 7
 350 43 VÄXJÖ
 SWEDEN
 Phone: + 46 470 75 88 00



Product fiche EcoHeater

Parameter	Unit	EcoHeater 060-1	EcoHeater 100-1	EcoHeater 100-2	EcoHeater 150-1	EcoHeater 190-1
Seasonal space heating energy efficiency class, average climate	-	A++	A++	A++	A++	A++
Rated heat output, P_{rated} average climate	kW	9	15	19	29	39
Seasonal space heating energy efficiency, η_s average climate	%	130	149	141	154	148
Annual energy consumption for space heating, Q_{HE} average climate	kWh	5 781	7 974	10 729	15 293	21 199
Sound power level L_{WA} indoors	dB	43	48	51	51	51
Rated heat output, P_{rated} colder climate	kW	9	15	19	30	39
Rated heat output, P_{rated} warmer climate	kW	9	15	19	30	39
Seasonal space heating energy efficiency, η_s colder climate	%	132	153	144	158	151
Seasonal space heating energy efficiency, η_s warmer climate	%	126	146	139	153	147
Annual energy consumption for space heating, Q_{HE} warmer climate	kWh	6 754	9 391	12 637	18 044	24 889
Annual energy consumption for space heating, Q_{HE} colder climate	kWh	3 849	5 258	7 067	10 023	13 872
Sound power level L_{WA} outdoors	dB	68	74	77	76	76

Calculations in accordance with 811/2013, 813/2013, EN 14511:2011 and EN 14825:2013.

Product fiche EcoHeater



Parameter	Unit	EcoHeater 060-1	EcoHeater 100-1	EcoHeater 100-2	EcoHeater 150-1	EcoHeater 190-1
Exhaust air-to-water heat pump	-	Yes	Yes	Yes	Yes	Yes
Equipped with supplementary heater	-	No	No	No	No	No
Heat pump combination heater	-	No	No	No	No	No
Medium temperature application	°C	55	55	55	55	55

Parameter	Unit	EcoHeater 060-1			EcoHeater 100-1			EcoHeater 100-2			EcoHeater 150-1			EcoHeater 190-1		
		Colder	Average	Warmer	Colder	Average	Warmer	Colder	Average	Warmer	Colder	Average	Warmer	Colder	Average	Warmer
Rated heat output, P_{rated}	kW	9,4	9,4	9,4	15,0	14,8	14,8	19,1	18,9	19,0	29,8	29,5	29,5	39,4	39,3	39,3
$P_{dh}(T_j = -7\text{ °C})$	kW	5,7	8,3	-	9,1	13,1	-	11,5	16,7	-	18,1	26,1	-	23,9	34,7	-
$P_{dh}(T_j = 2\text{ °C})$	kW	5,0	5,0	9,4	7,2	8,0	14,8	9,4	10,2	19,0	14,2	15,9	29,5	18,6	21,1	39,3
$P_{dh}(T_j = 7\text{ °C})$	kW	5,2	5,1	6,0	7,4	7,3	9,5	9,5	9,4	12,2	14,6	14,3	19,0	19,0	18,6	25,2
$P_{dh}(T_j = 12\text{ °C})$	kW	5,3	5,2	5,1	7,6	7,5	7,3	9,7	9,6	9,5	14,9	14,8	14,4	19,4	19,2	18,8
$P_{dh}(T_j = T_{bivalent})$	kW	9,3	9,4	9,4	14,8	14,8	14,8	18,9	18,9	19,0	29,4	29,5	29,5	39,2	39,3	39,3
$P_{dh}(T_j = T_{OL})$	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$P_{dh}(T_j = -15\text{ °C})$, if $T_{OL} < -20\text{ °C}$	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$T_{bivalent}$	°C	-22,0	-10,0	2,0	-22,0	-10,0	2,0	-22,0	-10,0	2,0	-22,0	-10,0	2,0	-22,0	-10,0	2,0
Cycling interval capacity, P_{cych}	kW	5,4	5,4	5,4	8,0	8,2	8,0	10,3	10,5	10,3	15,8	16,1	15,7	20,7	21,2	20,6
Degradation coefficient, C_{dh}	-	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Seasonal space heating energy efficiency, η_s	-	132%	130%	126%	153%	149%	146%	144%	141%	139%	158%	154%	153%	151%	148%	147%
$COP_d(T_j = -7\text{ °C})$	-	3,42	2,97	-	3,85	3,17	-	3,65	3,03	-	3,92	3,12	-	3,80	3,13	-
$COP_d(T_j = 2\text{ °C})$	-	3,78	3,50	2,76	4,37	3,99	2,87	4,11	3,78	2,77	4,55	4,12	2,77	4,29	3,96	2,84
$COP_d(T_j = 7\text{ °C})$	-	4,08	3,84	3,32	4,78	4,45	3,70	4,45	4,18	3,51	4,99	4,65	3,75	4,60	4,35	3,65
$COP_d(T_j = 12\text{ °C})$	-	4,31	4,19	3,97	5,10	4,94	4,62	4,71	4,58	4,31	5,33	5,16	4,82	4,84	4,72	4,47
$COP_{dh}(T_j = T_{bivalent})$	-	2,73	2,79	2,76	2,84	2,90	2,87	2,73	2,78	2,77	2,75	2,79	2,77	2,81	2,85	2,84
$COP_{dh}(T_j = T_{OL})$	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$COP_{dh}(T_j = -15\text{ °C})$, if $T_{OL} < -20\text{ °C}$	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T_{OL}	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cycling interval efficiency, COP_{cych}	-	2,05	1,84	2,02	2,20	2,01	2,18	2,10	1,92	2,09	2,25	2,07	2,25	2,14	1,97	2,13
Heating water operating limit temperature, W_{TOL}	°C		62			62			62			62			62	
Off mode, P_{OFF}	kW		0,000			0,000			0,000			0,000			0,000	
Thermostat-off mode, P_{TO}	kW		0,039			0,039			0,039			0,039			0,039	
Standby mode, P_{SB}	kW		0,039			0,039			0,039			0,039			0,039	
Crankcase heater mode, P_{CK}	kW		0,035			0,035			0,035			0,035			0,035	
Supplementary heater	-		No			No			No			No			No	
Capacity control	-		variable			variable			variable			variable			variable	
Sound power level, L_{WA} (indoors/outdoors)	dB		43 / 68			48 / 74			51 / 77			51 / 76			51 / 76	
Annual energy consumption, Q_{HE}	kWh	6 754	5 781	3 849	9 391	7 974	5 258	12 637	10 729	7 067	18 044	15 293	10 023	24 889	21 199	13 872
Rated airflow outdoors	m ³ /h	1 080	1 080	1 080	1 764	1 764	1 764	2 160	2 160	2 160	3 384	3 384	3 384	4 500	4 500	4 500

Calculations in accordance with 811/2013, 813/2013, EN 14511:2011 and EN 14825:2013.

© IV Produkt AB • Sjøuddevägen 7 • 350 43 VÄXJÖ • SWEDEN • Phone: + 46 470 75 88 00