BAETULENN

Technical Data

BAEHEAT B30

UHT Heat Pump



ES11/2025

Product description

BAEHEAT B30 UHT is a high-temperature heat pump system, available in capacities ranging from **15 to 390 kW,** designed for residential, commercial and industrial applications requiring **flow temperatures of up to 95 °C**.

UHT (Ultra-High Temperature) technology enables temperatures higher than those typically found in aerothermal systems to be achieved, making it suitable for **domestic hot water (DHW) production, heating and industrial thermal processes**.

The unit is designed to produce **high-temperature hot water**, and all its components have been selected to optimise **overall energy efficiency** and ensure reliable operation under conditions of high thermal demand.

Features

Structure and casing

Housing made from sheet steel with a weather-resistant polyester lacquer finish. Frame with a load-bearing base made from galvanised steel.

Compressors

Copeland Scroll compressors designed for heat pumps, offering a wide operating range, high efficiency, low noise levels and a long service life. They operate with R1234ze (A2L), GWP 6.

Fans

High-efficiency vertical fans, designed to reduce noise levels.

External battery

Hydrophilic aluminium heat exchanger with a cross-flow design. Golden Finn treatment with an epoxy coating, which is corrosion-resistant in marine environments and improves heat transfer.

Tubular heat exchanger – water side

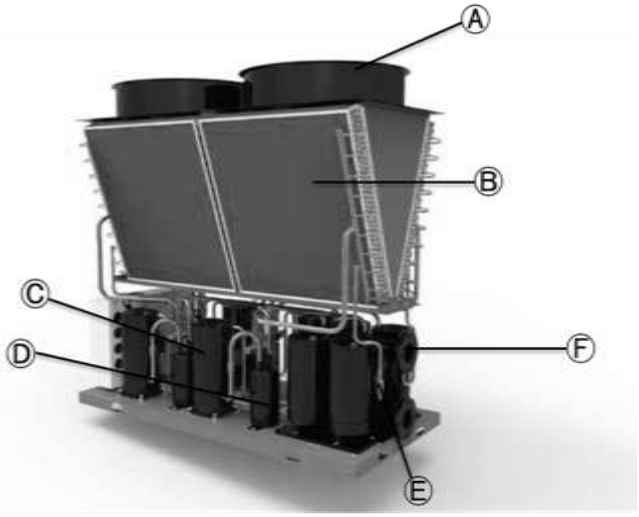
High-efficiency copper coil, with a heat exchange surface area 3.6 times greater than that of a plate heat exchanger. Optimised design to improve heat transfer and reduce flow resistance.

Controller

System management via the water return sensor reading. Includes frost protection, intelligent defrosting, daily/weekly scheduling and MODBUS communication for integration with the BMS.

Connectivity

Compatible with centralised technical management systems via the MODBUS protocol, it enables remote monitoring and control.



Ⓐ Fans
Ⓑ Refrigeration coil
Ⓒ Compressor
Ⓓ Liquid deposit
Ⓔ Expansion valve
Ⓕ Heat exchanger

Technical specifications

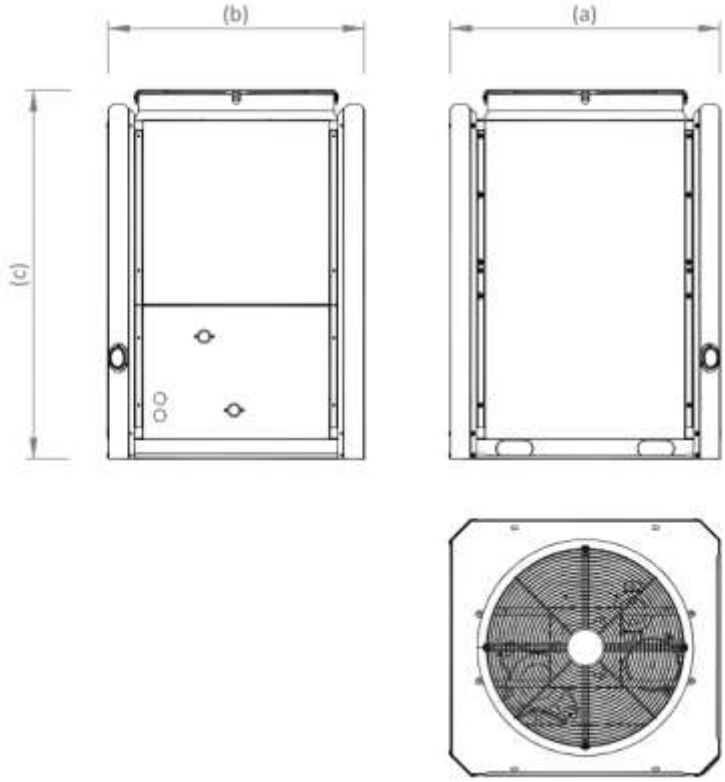
MODEL			BHTUTE015G	BHTUTE024G	BHTUTE033G	BHTUTE048G	BHTUTE065G
Nominal heat output		kW	15,00	24,00	33,00	48,00	65,00
UNE14511							
Heat output / Power consumption (AW 7/65)		kW	11,10 / 3,99	19,00 / 6,51	26,12 / 8,95	38,24 / 13,10	52,00 / 17,90
COP			2,78	2,92	2,92	2,92	2,91
Heat output / Power consumption (AW -2/65)		kW	8,20 / 3,58	14,04 / 5,97	19,30 / 8,21	28,26 / 12,02	38,43 / 16,44
COP			2,29	2,35	2,35	2,35	2,34
UNE16147							
SCOP DHW (Average climate, 7°C)			3,04	3,02	3,03	3,01	3,01
SCOP DHW (Warm weather, 14°C)			3,42	3,39	3,41	3,39	3,40
TECHNICAL SPECIFICATIONS							
Operating range (Min–Max)		ºC	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48
Maximum temperature for heat pump		ºC	95	95	95	95	95
Shell-and-tube heat exchanger	Flow rate	m^3/h	2,58	4,13	5,68	8,26	11,18
	Pressure drop	kPa	55	60	70	72	72
	Connection diameter		DN25	DN40	DN40	DN50	DN65
	Connection type		Threaded				
Refrigeration circuit - INDIVIDUAL UNITS (compressor - expansion valve - evaporator coil - shell-and-tube heat exchanger)	Compressor type		Sealed Scroll Compressor - Direct Start				
	Gas		R-1234ze				
	Number of circuits	UD.	1	1	1	2	2
	Charge gas per circuit	Kg	4	7	8,5	6,8	8,5
Fan	Quantity	UD.	1	2	2	2	2
	Rated power x fan	W	250	250	250	750	1300
	Diameter	mm	560	560	560	710	750
	Required airflow	m^3/h	6000	7000 * 2	7500 * 2	13000 * 2	18000 * 2
	Available pressure	Pa	15	15 * 2	15 * 2	15 * 2	15 * 2
	Sound power	dB(A)	63	68	68	69	70
ELECTRICAL SPECIFICATIONS							
Power supply		V / Ø / Hz	380-420 / 3 / 50				
Maximum current		A	15,84	25,49	34,95	51,14	69,25
Maximum power		kW	8,34	13,42	18,40	26,93	36,46
DIMENSIONS							
Width		mm	760	820	820	1000	1000
Depth		mm	800	1600	1600	2000	2000
Height		mm	1100	1600	1600	1950	1950
Weight		Kg	150	280	290	510	610

Technical specifications

MODEL				BHTUTE095G	BHTUTE130G	BHTUTE260G	BHTUTE390G
Nominal heat output		kW		95,00	130,00	260,00	390,00
UNE14511							
Heat output / Power consumption (AW 7/65)		kW		75,93 / 26,11	104,02 / 35,91	208,04 / 71,46	312,06 / 106,76
COP				2,91	2,90	2,91	2,92
Heat output / Power consumption (AW -2/65)		kW		56,11 / 23,97	76,87 / 32,97	153,74 / 65,62	230,61 / 98,03
COP				2,34	2,33	2,34	2,35
UNE16147							
SCOP DHW (Average climate, 7°C)				3,00	3,01	3,00	3,00
SCOP DHW (Warm weather, 14°C)				3,38	3,38	3,38	3,38
TECHNICAL SPECIFICATIONS							
Operating range (Min–Max)		ºC		-5 / 48	-5 / 48	-5 / 48	-5 / 48
Maximum temperature for heat pump		ºC		95	95	95	95
Shell-and-tube heat exchanger	Flow rate	m^3/h		16,34	22,36	44,72	67,08
	Pressure drop	kPa		75	75	85	95
	Connection diameter			DN80	DN80	DN150	DN200
	Connection type			Flanged			
Refrigeration circuit - INDIVIDUAL UNITS (compressor - expansion valve - evaporator coil - shell-and-tube heat exchanger)	Compressor type			Sealed Scroll Compressor - Direct Start			
	Gas			R-1234ze			
	Number of circuits	UD.		4	4	8	12
	Charge gas per circuit	UD.		6,8	8,5	8,5	8,5
Fan	Quantity	UD.		2	2	4	6
	Rated power x fan	kW		1800	1800	1800	1800
	Diameter	mm		915	915	915	915
	Required airflow	m^3/h		26000 * 2	26000 * 2	26000 * 4	26000 * 6
	Available pressure	Pa		60 * 2	60 * 2	60 * 4	60 * 6
	Sound power	dB(A)		74	75	80	85
ELECTRICAL SPECIFICATIONS							
Power supply		V / Ø / Hz		380-420 N / 3 / 50			
Maximum current		A		101,51	138,91	277,82	416,73
Maximum power		kW		53,45	73,14	146,28	219,42
DIMENSIONES							
Width		mm		1250	1250	2280	2281
Depth		mm		2300	2300	2400	3511
Height		mm		2360	2360	2430	2430
Weight		Kg		1250	1280	1990	2990

Dimensions						
MODEL		**BHTUTE015G**	**BHTUTE024G**	**BHTUTE033G**	**BHTUTE048G**	**BHTUTE065G**
Width (b)	mm	760	820	820	1000	1000
Depth (a)	mm	800	1600	1600	2000	2000
Height (c)	mm	1100	1600	1600	1950	1950
Weight	Kg	150	280	290	510	610
MODEL			**BHTUTE095G**	**BHTUTE130G**	**BHTUTE260G**	**BHTUTE390G**
Width (b)	mm		1250	1250	2280	2281
Depth (a)	mm		2300	2300	2400	3511
Height (c)	mm		2360	2360	2430	2430
Weight	Kg		1250	1280	1990	2990

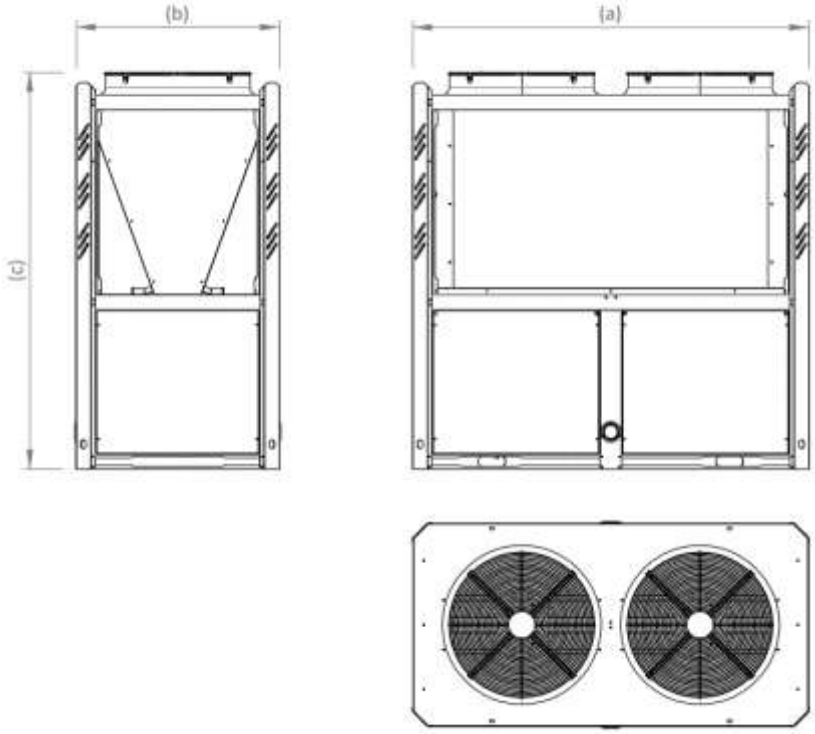
015





Dimensions

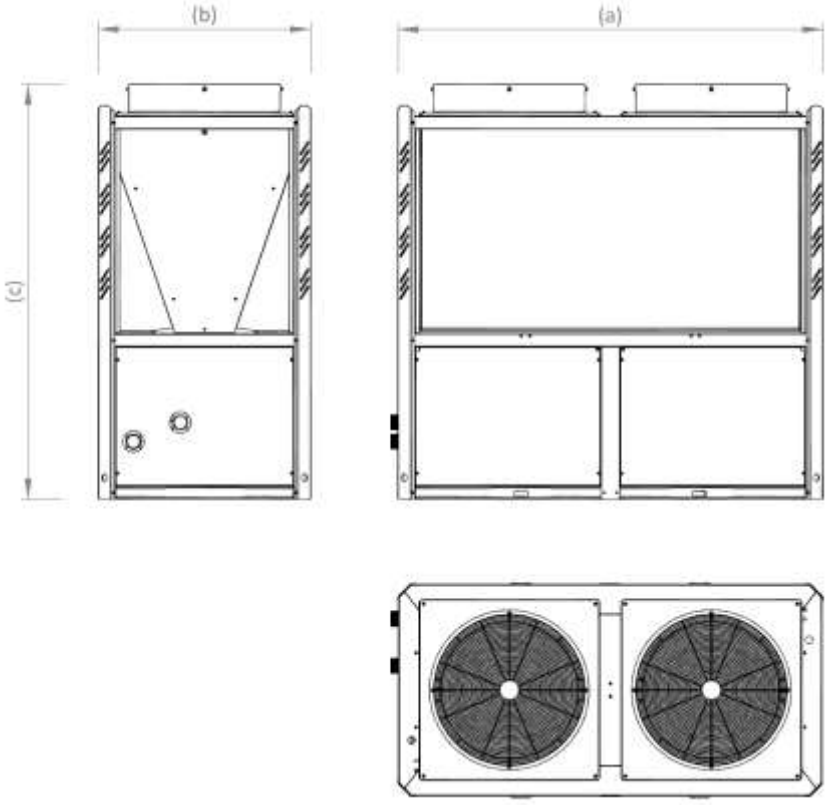
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Dimensions

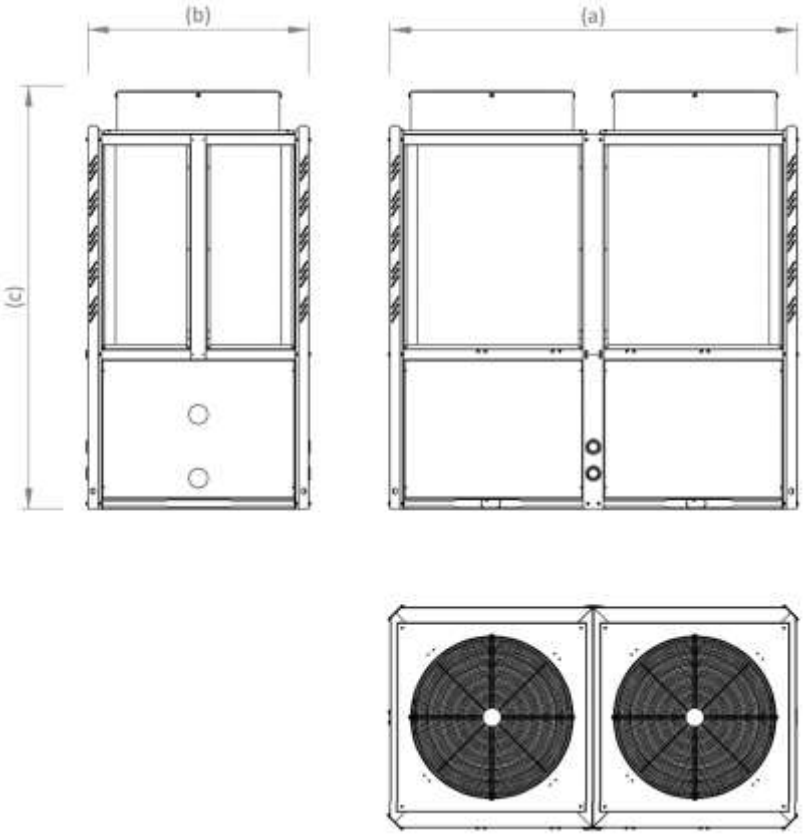
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Dimensions

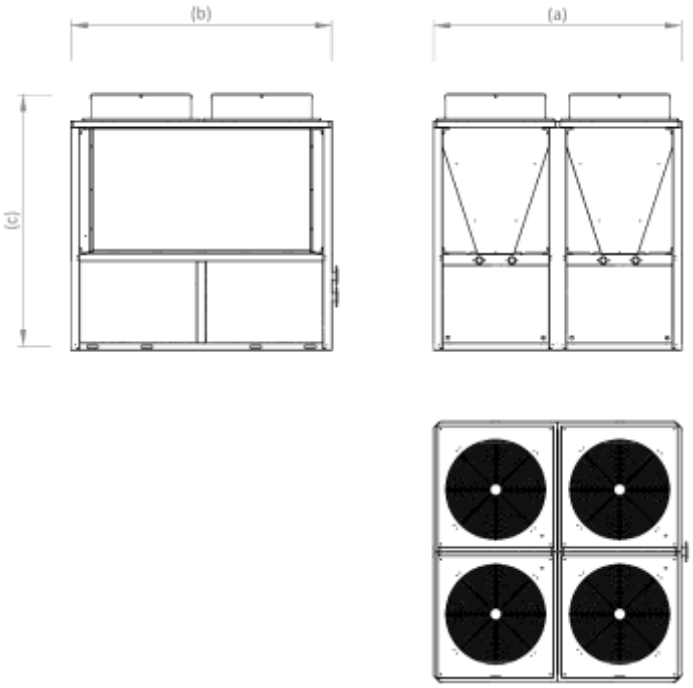
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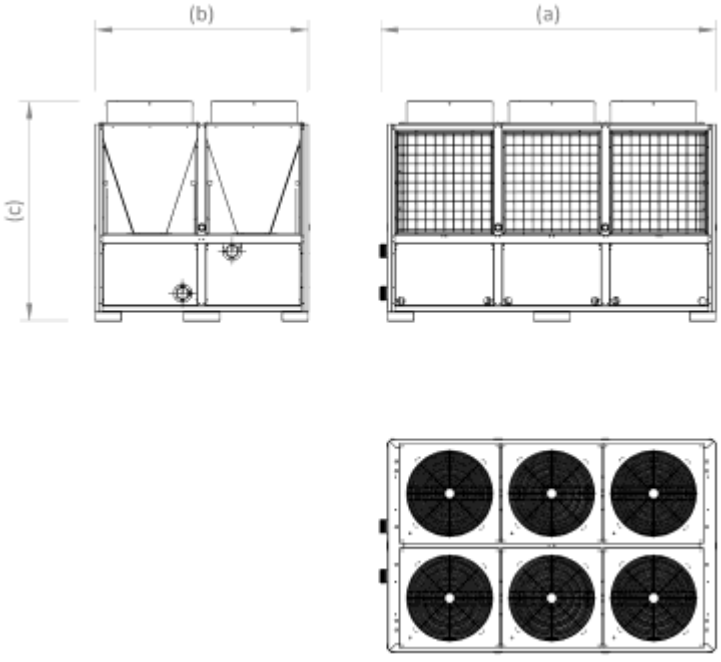


Dimensions

260



390



Sound levels

MODEL	Sound pressure	Sound power
	dB(A)	dB(A)
BHTUTE015G	43	63
BHTUTE024G	48	68
BHTUTE033G	48	68
BHTUTE048G	49	69
BHTUTE065G	50	70
BHTUTE095G	54	74
BHTUTE130G	55	75
BHTUTE260G	60	80
BHTUTE390G	65	85

Noise levels refer to the unit at full load.

The sound pressure level refers to a measurement taken 1 m from the external surface of the unit, operating in an open field.

Data based on the following conditions:

- water in the internal heat exchanger = 60/65 °C
- outdoor air temperature 7 °C

Power correction tables

BHTUTE015G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	18,70	4,22	18,36	4,28
30	17,01	4,10	16,66	4,14
25	16,75	4,08	16,15	4,11
20	16,42	4,05	15,68	4,07
15	15,56	3,93	14,76	3,95
7	14,72	3,76	13,04	3,78
2	12,82	3,54	11,30	3,56
-2	10,19	2,93	9,22	2,93
-5	8,56	2,87	7,98	2,88
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	18,02	4,54	17,69	4,82
30	16,31	4,32	15,97	4,50
25	15,28	4,25	14,59	4,31
20	14,98	4,21	14,31	4,29
15	13,72	3,97	13,32	4,08
7	11,55	3,80	11,10	3,99
2	9,96	3,57	9,53	3,91
-2	8,35	3,26	8,20	3,58
-5	7,28	2,97	7,05	3,28
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	16,94	5,29	16,68	6,19
30	15,10	4,96	14,00	5,50
25	13,28	4,50	12,93	5,18
20	12,89	4,46	12,68	5,13
15	11,21	4,33	9,60	4,55
7	9,12	4,16	8,50	4,22
2	8,56	3,95	7,50	4,02
-2	7,36	3,76	6,66	3,96
-5	6,05	3,56	5,94	3,71

BHTUTE024G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	29,92	6,70	29,37	6,88
30	27,22	6,50	26,65	6,66
25	26,80	6,46	25,78	6,56
20	26,26	6,42	25,09	6,47
15	24,90	6,33	23,62	6,37
7	23,56	6,07	20,86	6,12
2	20,51	5,72	18,08	5,74
-2	16,30	4,72	14,76	4,74
-5	11,39	4,04	11,05	4,15
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	28,83	7,30	28,30	7,71
30	26,10	6,94	25,55	7,21
25	24,39	6,78	23,29	6,94
20	23,97	6,77	22,90	6,87
15	21,95	6,39	21,31	6,53
7	19,68	6,13	19,00	6,51
2	17,14	5,74	16,30	6,06
-2	14,56	5,24	14,04	5,97
-5	10,79	4,40	10,31	4,80
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	27,10	8,47	26,69	9,90
30	24,16	7,93	22,40	8,80
25	21,19	7,18	20,64	8,27
20	20,62	7,14	20,29	8,22
15	17,94	6,93	15,36	7,28
7	14,59	6,66	13,60	6,75
2	13,70	6,32	12,00	6,43
-2	11,78	6,02	10,66	6,34
-5	9,68	5,70	9,50	5,94

Power correction tables

BHTUTE033G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	41,14	9,22	40,38	9,46
30	37,43	8,94	36,65	9,15
25	36,84	8,88	35,44	9,02
20	36,11	8,83	34,50	8,89
15	34,23	8,71	32,47	8,76
7	32,39	8,34	28,69	8,42
2	28,20	7,86	24,86	7,89
-2	22,41	6,49	20,29	6,52
-5	15,66	5,56	15,19	5,70
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	39,64	10, 04	38,92	10,60
30	35,88	9,55	35,13	9,91
25	33,53	9,33	32,02	9,54
20	32,96	9,31	31,48	9,44
15	30,18	8,79	29,30	8,97
7	27,06	8,43	26,12	8,95
2	23,56	7,89	22,42	8,33
-2	20,02	7,21	19,30	8,21
-5	14,83	6,05	14,17	6,59
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	37,27	11,64	36,70	13,61
30	33,22	10,90	30,80	12,11
25	29,14	9,88	28,37	11,37
20	28,36	9,82	27,89	11,30
15	24,66	9,53	21,12	10,01
7	20,06	9,15	18,70	9,29
2	18,83	8,69	16,50	8,85
-2	16,19	8,27	14,65	8,71
-5	13,31	7,83	13,07	8,17

BHTUTE048G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	60,22	13,50	59,12	13,85
30	54,79	13,08	53,65	13,40
25	53,59	12,91	51,55	13,12
20	52,87	12,92	50,51	13,01
15	50,12	12,75	47,54	12,83
7	47,42	12,21	42,00	12,32
2	41,28	11,51	36,39	11,56
-2	32,81	9,50	29,70	9,54
-5	22,93	8,14	22,24	8,35
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	58,04	14,69	56,98	15,51
30	52,53	13,97	51,44	14,51
25	48,77	13,57	46,57	13,87
20	48,25	13,63	46,09	13,82
15	44,19	12,87	42,90	13,14
7	39,62	12,34	38,24	13,10
2	34,49	11,56	32,82	12,20
-2	29,31	10,56	28,26	12,02
-5	21,72	8,86	20,75	9,65
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	54,56	17,05	53,72	19,93
30	48,64	15,96	45,09	17,72
25	42,39	14,36	41,27	16,53
20	41,52	14,37	40,84	16,54
15	36,11	13,95	30,92	14,66
7	29,37	13,40	27,38	13,60
2	27,57	12,73	24,16	12,95
-2	23,71	12,11	21,45	12,76
-5	19,49	11,47	19,13	11,96

BHTUTE065G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	81,91	18,45	80,41	18,93
30	74,52	17,88	72,96	18,32
25	73,69	17,75	70,88	18,04
20	71,90	17,66	68,69	17,79
15	68,16	17,42	64,65	17,53
7	64,49	16,69	57,12	16,84
2	56,14	15,73	49,49	15,79
-2	44,62	12,99	40,40	13,04
-5	31,18	11,12	30,25	11,41
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	78,93	20,08	77,49	21,20
30	71,44	19,10	69,95	19,83
25	67,06	18,65	64,04	19,07
20	65,62	18,63	62,68	18,89
15	60,10	17,59	58,35	17,96
7	53,88	16,87	52,00	17,90
2	46,91	15,79	44,63	16,68
-2	39,86	14,43	38,43	16,44
-5	29,53	12,11	28,22	13,20
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	74,20	23,30	73,06	27,24
30	66,15	21,82	61,32	24,22
25	58,29	19,75	56,75	22,74
20	56,46	19,64	55,54	22,60
15	49,10	19,07	42,05	20,04
7	39,95	18,32	37,23	18,58
2	37,50	17,39	32,85	17,70
-2	32,24	16,56	29,17	17,44
-5	26,50	15,67	26,02	16,35

BHTUTE095G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	119,58	26,90	117,39	27,61
30	108,79	26,08	106,53	26,72
25	106,85	25,83	102,78	26,25
20	104,98	25,76	100,29	25,94
15	99,51	25,41	94,39	25,57
7	94,16	24,35	83,40	24,56
2	81,97	22,94	72,26	23,04
-2	65,14	18,94	58,98	19,02
-5	45,53	16,22	44,17	16,65
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	115,24	29,29	113,13	30,93
30	104,31	27,86	102,13	28,92
25	97,24	27,19	92,85	27,75
20	95,80	27,17	91,52	27,55
15	87,74	25,65	85,18	26,19
7	78,66	24,61	75,93	26,11
2	68,49	23,04	65,17	24,32
-2	58,20	21,04	56,11	23,97
-5	43,12	17,66	41,20	19,25
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	108,34	33,98	106,67	39,73
30	96,58	31,83	89,53	35,33
25	84,51	28,74	82,29	33,08
20	82,43	28,65	81,09	32,97
15	71,69	27,81	61,39	29,22
7	58,32	26,72	54,36	27,10
2	54,74	25,37	47,96	25,82
-2	47,07	24,15	42,59	25,43
-5	38,69	22,86	37,99	23,84

Power correction tables

BHTUTE130G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	163,83	37,01	160,83	37,98
30	149,05	35,88	145,94	36,75
25	147,38	35,56	141,76	36,08
20	143,82	35,44	137,39	35,69
15	136,33	34,95	129,32	35,17
7	128,99	33,49	114,25	33,78
2	112,30	31,56	98,99	31,69
-2	89,25	26,06	80,80	26,16
-5	62,37	22,32	60,51	22,90
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	157,88	40,29	154,99	42,54
30	142,90	38,32	139,92	39,77
25	134,13	37,31	128,07	38,15
20	131,25	37,37	125,38	37,90
15	120,21	35,28	116,70	36,03
7	107,77	33,85	104,02	35,91
2	93,84	31,69	89,28	33,45
-2	79,73	28,95	76,87	32,97
-5	59,07	24,29	56,45	26,47
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	148,42	46,74	146,14	54,64
30	132,32	43,78	122,66	48,59
25	116,57	39,50	113,50	45,47
20	112,94	39,40	111,09	45,35
15	98,22	38,25	84,11	40,20
7	79,90	36,75	74,47	37,28
2	75,00	34,90	65,71	35,51
-2	64,48	33,22	58,35	34,98
-5	53,01	31,44	52,04	32,80

BHTUTE260G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	327,65	73,64	321,65	75,58
30	298,10	71,40	291,88	73,13
25	294,76	71,12	285,53	72,16
20	287,65	70,52	274,78	71,01
15	272,66	69,56	258,64	69,99
7	257,99	66,64	228,50	67,22
2	224,59	62,80	197,98	63,06
-2	178,49	51,85	161,61	52,07
-5	124,74	44,41	121,02	45,57
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	315,76	80,17	309,98	84,65
30	285,80	76,26	279,84	79,15
25	268,26	74,61	256,14	76,30
20	262,49	74,36	250,75	75,42
15	240,41	70,21	233,41	71,69
7	215,53	67,36	208,04	71,46
2	187,67	63,06	178,55	66,57
-2	159,46	57,60	153,74	65,62
-5	118,15	48,33	112,89	52,68
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	296,84	93,01	292,28	108,74
30	264,63	87,11	245,32	96,70
25	233,14	79,00	227,00	90,94
20	225,87	78,41	222,17	90,24
15	196,43	76,12	168,22	79,99
7	159,81	73,13	148,94	74,19
2	150,00	69,44	131,42	70,67
-2	128,97	66,10	116,70	69,62
-5	106,01	62,56	104,09	65,27

BHTUTE390G

Outdoor. C°	Outlet, 50°C		Outlet, 55°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	491,48	110,02	482,48	112,91
30	447,15	106,67	437,82	109,25
25	442,13	106,68	425,29	108,23
20	431,47	105,35	412,17	106,09
15	408,98	103,92	387,96	104,57
7	386,98	99,56	342,76	100,43
2	336,89	93,83	296,98	94,21
-2	267,74	77,46	242,41	77,79
-5	187,11	66,35	181,52	68,08
Outdoor. C°	Outlet, 60°C		Outlet, 65°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	473,64	119,78	464,97	126,47
30	428,70	113,93	419,76	118,25
25	402,38	111,92	384,21	114,44
20	393,74	111,09	376,13	112,68
15	360,62	104,89	350,11	107,11
7	323,30	100,63	312,06	106,76
2	281,51	94,21	267,83	99,46
-2	239,19	86,06	230,61	98,03
-5	177,22	72,20	169,34	78,70
Outdoor. C°	Outlet, 70°C		Outlet, 75°C	
	HC (kW)	PC (kW)	HC (kW)	PC (kW)
35	445,26	138,96	438,42	162,46
30	396,95	130,15	367,98	144,48
25	349,72	118,50	340,50	136,41
20	338,81	117,15	333,26	134,82
15	294,65	113,73	252,33	119,51
7	239,71	109,26	223,42	110,84
2	224,99	103,75	197,13	105,58
-2	193,45	98,76	175,05	104,01
-5	159,02	93,47	156,13	97,51

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