

General data

Nominal heat output at 80-60°C	kW
Minimum heat output at 80-60°C	kW
Nominal heat output at 75-60°C	kW
Minimum heat output at 75-60°C	kW
Nominal heat output at 50/30°C	kW
Minimum heat output at 50/30°C	kW
Nominal heat output at 40/30°C	kW
Minimum heat output at 40/30°C	kW
Nominal heat input Hi max	kW
Minimum heat input Hi min	kW
Modulation	1:x
Gas consumption H-gas max (10,9 kWh/m ³)	m ³ /h
Gas consumption H-gas min (10,9 kWh/m ³)	m ³ /h
Gas consumption L-gas max (8,34 kWh/m ³)	m ³ /h
Gas consumption L-gas min (8,34 kWh/m ³)	m ³ /h
Gas consumption LPG max (12,8 kWh/kg)	kg/h
Gas consumption LPG min (12,8 kWh/kg)	kg/h
Gas pressure H-gas	mbar
Gas pressure L-gas	mbar
Gas pressure LPG	mbar
Min gas pressure H-gas	mbar
Min gas pressure L-gas	mbar
Min gas pressure LPG	mbar
Maximum gas pressure	mbar
Weight (empty)	kg
Noise level	dB(A)
Sound pressure level	dB(A)
CE certification code	-

R0060	R0070	R0100	R0120	R0140	R0170	R0200
56,9	65,4	90,2	110,8	130,5	155,5	180,3
14,7	14,6	18,1	14,7	14,6	14,6	18,1
57,0	65,3	89,4	110,3	129,9	154,4	179,1
14,7	14,6	17,9	14,6	14,6	14,5	18,0
62,5	71,9	98,8	121,9	142,1	170,4	196,9
16,1	16,1	19,8	16,1	15,9	16,0	19,7
62,6	72,0	99,0	122,2	142,4	170,9	197,4
16,1	16,1	19,9	16,2	16,0	16,1	19,8
57,9	66,7	92,3	112,8	133,2	158,8	184,5
14,9	14,9	18,5	14,9	14,9	14,9	18,5
3,9	4,5	5,0	7,6	9,0	10,7	10,0
6,1	7,1	9,8	11,9	14,1	16,8	19,5
1,6	1,6	2,0	1,6	1,6	1,6	2,0
7,1	8,2	11,4	13,9	16,4	19,5	22,7
1,8	1,8	2,3	1,8	1,8	1,8	2,3
2,36	2,72	3,76	4,60	5,43	6,47	7,52
0,96	0,96	1,43	0,96	0,96	0,96	1,43
20	20	20	20	20	20	20
25	25	25	25	25	25	25
30 / 50	30 / 50	30 / 50	30 / 50	30 / 50	30 / 50	30 / 50
17	17	17	17	17	17	17
20	20	20	20	20	20	20
25-35	25-35	25-35	25-35	25-35	25-35	25-35
58	58	58	58	58	58	58
73	73	80	127	127	132	140
62	65	60	67	70	67	63
51	54	49	56	59	56	52
0063CT3449	0063CT3449	0063CT3449	0063CT3449	0063CT3449	0063CT3449	0063CT3449

Efficiencies

Efficiency at 80/60°C full load	%
Efficiency at 80/60°C min load	%
Efficiency at 75/60°C full load	%
Efficiency at 75/60°C min load	%
Efficiency at 50/30°C full load	%
Efficiency at 50/30°C min load	%
Efficiency at 40/30°C full load	%
Efficiency at 40/30°C min load	%
Efficiency at 36/30°C 30% load	%
Annual efficiency (NNG 75/60°C)	%
Annual efficiency (NNG 40/30°C)	%
Standstill losses (T _{water} = 50°C)	W
Standstill losses (T _{water} = 50°C)	%

98,20	98,00	97,70	98,20	98,00	97,90	97,70
98,53	98,33	97,91	98,53	98,33	98,23	97,91
98,50	97,93	96,90	97,80	97,50	97,20	97,10
98,83	98,26	97,11	98,13	97,83	97,53	97,31
107,90	107,75	107,00	108,10	106,70	107,30	106,70
108,30	108,15	107,30	108,50	107,10	107,60	107,00
108,10	107,95	107,30	108,30	106,90	107,60	107,00
108,50	108,35	107,60	108,70	107,30	107,90	107,30
109,28	109,23	108,91	109,28	109,23	109,07	108,91
107,30	107,90	106,00	107,00	107,20	106,80	107,70
110,80	110,60	111,40	111,00	110,70	111,50	111,70
85,73	85,73	74,77	79,24	79,24	99,53	99,53
0,15	0,13	0,08	0,07	0,06	0,06	0,05

Fluegas data

Fluegas temperature at 80/60°C max	°C
Fluegas temperature at 80/60°C min	°C
Fluegas temperature at 50/30°C max	°C
Fluegas temperature at 50/30°C min	°C
Fluegas temperature at 40/30°C max	°C
Fluegas temperature at 40/30°C min	°C
Fluegas temperature at 36/30°C 30%	°C
Fluegas quantity max	m ³ /h
Fluegas quantity min	m ³ /h
Fluegas quantity max	kg/h
Fluegas quantity min	kg/h
CO ₂ level gas G20/G25 max	%
CO ₂ level gas G20/G25 min	%
CO ₂ level gas G31 max	%
CO ₂ level gas G31 min	%
CO ₂ level gas G30 max	%
CO ₂ level gas G30 min	%
CO ₂ level pilot burner gas G20/G25 max/min	%
CO ₂ level pilot burner gas G31 max/min	%
CO ₂ level pilot burner gas G30 max/min	%
CO level max	mg/kWh
CO level (annual emission EN15502)	mg/kWh

62	61	71	62	61	72	71
60	59	68	60	59	69	67
31	31	32	31	31	32	32
30	30	30	30	30	30	30
30	30	31	30	30	31	31
30	30	30	30	30	30	30
30	30	31	30	30	31	32
80,4	92,7	128,2	156,7	185,1	220,6	256,3
20,7	20,7	25,6	20,7	20,7	20,7	25,6
104,0	119,8	165,8	202,6	239,3	285,3	331,5
26,7	26,7	33,1	26,7	26,7	26,7	33,1
9,00	9,00	9,00	9,00	9,00	9,00	9,00
8,50	8,50	8,50	8,50	8,50	8,50	8,50
10,50	10,50	10,50	10,50	10,50	10,50	10,50
10,00	10,00	10,00	10,00	10,00	10,00	10,00
10,50	10,50	10,50	10,50	10,50	10,50	10,50
10,00	10,00	10,00	10,00	10,00	10,00	10,00
na	na	na	na	na	na	na
na	na	na	na	na	na	na
na	na	na	na	na	na	na
30,1	32,6	41,7	35,5	32,6	38,5	40,1
20,5	11,5	17,5	15,0	11,5	14,7	16,1

NOx level max	mg/kWh
NOx level (annual emission EN15502)	mg/kWh
NOx class	-
BREEAM credits 2016 International	-
Max. permissible flue resistance max	Pa
Max. permissible flue resistance min	Pa
Max. condensate (full load @ 40/30°C, 20°C ambient, G20)	l/h

37,6	39,3	38,3	43,8	45,1	41,2	39,3
24,1	24,8	25,2	25,2	26,3	25,1	26,2
6	6	6	6	6	6	6
2	2	2	2	1	2	2
161	156	243	143	200	215	265
6,4	7,2	9,3	12,7	12,6	16,5	17,8

Hydraulic data

Water volume	l
Water pressure max	bar
Water pressure min	bar
ΔT max	K
Maximum water temperature (High limit thermostat)	°C
Maximum temperature setpoint	°C
Nominal water flow at dT=20K	m ³ /h
Nominal water flow at dT=25K	m ³ /h
Hydraulic resistance at nominal water flow (dT 20K)	kPa
Hydraulic resistance at nominal water flow (dT 25K)	kPa
PH value condensate	-

9,3	9,3	13,9	16,8	16,8	21,3	25,8
6,0	6,0	6,0	6,0	6,0	6,0	6,0
0,7	0,7	0,7	0,7	0,7	0,7	0,7
30	30	30	30	30	30	30
95	95	95	95	95	95	95
90	90	90	90	90	90	90
2,4	2,8	3,9	4,8	5,6	6,7	7,8
1,95	2,25	3,12	3,81	4,50	5,36	6,23
18,3	24,3	46,8	23,3	32,6	34,4	48,8
11,7	15,6	30,0	15,0	20,9	22,0	31,2
1,8	1,8	1,8	1,8	1,8	1,8	1,8

Electrical data

Electrical connection	V
Frequency	Hz
Mains connection fuse	A
IP class	-
Ionisation current minimum	μA
Power consumption boiler max ErP (excl. pump)	W
Power consumption boiler min ErP (excl. pump)	W
Power consumption boiler max ErP (incl. pump)	W
Power consumption boiler min ErP (incl. pump)	W

230	230	230	230	230	230	230
50,00	50,00	50,00	50,00	50,00	50,00	50,00
6,30	6,30	6,30	6,30	6,30	6,30	6,30
IPX4D	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
4,00	4,00	4,00	4,00	4,00	4,00	4,00
126	137	120	314	418	464	450
81	45	95	66	71	109	99

Dimensions

Water connections	-
Gas connection	-
Flue gas connection	mm
Air intake connection (for room sealed use)	mm
Condensate connection	mm
Depth	mm
Width	mm
Height (incl. connections)	mm

Rp 2"	Rp 2"	Rp 2"	Rp 2"	Rp 2"	Rp 2"	Rp 2"
Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/4"	Rp 1-1/4"
100,00	100,00	100,00	100,00	100,00	130,00	130,00
100,00	100,00	100,00	100,00	100,00	130,00	130,00
36	36	36	36	36	36	36
595	595	675	595	595	675	675
530	530	530	690	690	690	690
1050	1050	1050	1050	1050	1050	1050

PUMPS

Pump data: fixed speed

Pump type fixed speed pump	-
Voltage fixed speed pump	V
Power consumption fixed speed pump	W
Pump curve setting	-
Total head at nominal flow	kPa
Maximum available head for system	kPa

Pump data: speed controlled

Pump type speed controlled pump	-
Voltage speed controlled pump	V
Power consumption speed controlled pump max	W
Total head at nominal flow	kPa
Maximum available head for system	kPa
Total head at nominal flow (dT 25K)	kPa
Maximum available head for system (dT 25K)	kPa

WILO STRATOS PARA 8	WILO STRATOS PARA 8	WILO STRATOS PARA 9	WILO STRATOS PARA 8	WILO STRATOS PARA 8	WILO STRATOS PARA 9	WILO STRATOS PARA 9
230	230	230	230	230	230	230
75	75	87	150	150	174	174
48	39	33	49	39	42	33
30	15	0	26	7	8	0
61	53	47	62	53	56	47
50	37	17	47	32	34	16

Pump data: bypass

Pump type bypass pump	-
Voltage bypass pump	V
Power consumption bypass pump	W
Pump curve setting	-

Pump data: IP (water heater)

Pump type IP pump	-
Voltage IP pump	V
Power consumption IP pump	W
Pump curve setting	-
Nominal water flow at dT=17K	m ³ /h
Hydraulic resistance at water flow dT=17K	kPa
Total head at nominal flow	kPa
Maximum available head for system @ dT=17K	kPa

Pump data: IP bypass (water heater)

Pump type IP bypass pump	-
Voltage IP bypass pump	V
Power consumption IP bypass pump	W
Pump curve setting	-

Legge 10 (Italy only)

Combustion efficiency (indirect) at 80/60°C full load (burner on)	%
Combustion efficiency (indirect) at 80/60°C min load (burner on)	%
Combustion efficiency (indirect) at 40/30°C full load (burner on)	%
Combustion efficiency (indirect) at 40/30°C min load (burner on)	%
Combustion efficiency (direct) at 80/60°C full load	%
Combustion efficiency (direct) at 80/60°C 30% load	%
Combustion efficiency (direct) at 40/30°C full load	%
Combustion efficiency (direct) at 40/30°C 30% load	%
Thermal losses at chimney, at 80/60°C full load (burner on)	%
Thermal losses at chimney, at 80/60°C min load (burner on)	%
Thermal losses at chimney, at 40/30°C full load (burner on)	%
Thermal losses at chimney, at 40/30°C min load (burner on)	%
Thermal losses at chimney (burner off)	%
Loss on surface (casing)	%
Nett flue gas temperature at 80/60°C full load	°C
CO ₂ level gas G20/G25 max	%

97,8	97,9	97,3	97,8	97,9	97,3	97,4
97,8	97,9	97,4	97,8	97,9	97,3	97,4
99,5	99,5	99,4	99,5	99,5	99,4	99,4
99,5	99,5	99,5	99,5	99,5	99,5	99,5
98,2	98,0	97,7	98,2	98,0	97,9	97,7
98,5	98,3	97,9	98,5	98,3	98,2	97,9
108,1	108,0	107,3	108,3	106,9	107,6	107,0
108,5	108,4	107,6	108,7	107,3	107,9	107,3
2,2	2,1	2,7	2,2	2,1	2,7	2,6
2,2	2,1	2,6	2,2	2,1	2,7	2,6
0,5	0,5	0,6	0,5	0,5	0,6	0,6
0,5	0,5	0,5	0,5	0,5	0,5	0,5
<0,10	<0,11	<0,12	<0,13	<0,14	<0,15	<0,16
0,15	0,13	0,08	0,07	0,06	0,06	0,05
41,6	40,9	51,2	42,0	41,0	52,3	51,0
9,0	9,0	9,0	9,0	9,0	9,0	9,0

ENEV (Germany/Austria/Switzerland only)

Nominal heat output at 80-60°C	kW
Nominal heat output at 40/30°C	kW
Efficiency at 80/60°C full load	%
Efficiency at 36/30°C 30% load	%
Fluegas temperature at 36/30°C 30%	°C
Standstill losses (T _{water} = 70°C)	%
Support energy	W

56,9	65,4	90,2	110,8	130,5	155,5	180,3
62,6	72,0	99,0	122,2	142,4	170,9	197,4
98,2	98,0	97,7	98,2	98,0	97,9	97,7
109,3	109,2	108,9	109,3	109,2	109,1	108,9
30	30	31	30	30	31	32
0,15	0,13	0,08	0,07	0,06	0,06	0,05
75	75	87	150	150	174	174

RT2012 (France only)

Nominal heat output at 80-60°C	kW
Minimal heat output at 80-60°C	kW
Efficiency at 80/60°C full load	%
Efficiency at 36/30°C 30% load	%
Standstill losses (dT=30K ; T _{water} = 50°C; T _{amb} = 20°C)	W
Loss on surface (casing)	%
Power consumption boiler max (excl. pump)	W

56,9	65,4	90,2	110,8	130,5	155,5	180,3
14,7	14,6	18,1	14,7	14,6	14,6	18,1
98,2	98,0	97,7	98,2	98,0	97,9	97,7
109,3	109,2	108,9	109,3	109,2	109,1	108,9
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0,15	0,13	0,08	0,07	0,06	0,06	0,05
0,0	0,0	0,0	0,0	0,0	0,0	0,0

Power consumption boiler min (excl. pump)	W
Power consumption boiler at standstill (no load)	W
Power consumption max pump	W
Operating temperature boiler max	°C
Operating temperature boiler min	°C
Nominal water flow at dT=20K	m ³ /h

0,0	0,0	0,0	0,0	0,0	0,0	0,0
14	15	16	17	18	19	20
75	75	87	150	150	174	174
95	95	95	95	95	95	95
5	6	7	8	9	10	11
2,4	2,8	3,9	4,8	5,6	6,7	7,8

UK specific data

Efficiency at 80/60°C full load Gross	%
Efficiency at 50/30°C min load Gross	%
Efficiency at 40/30°C min load Gross	%
Gross seasonal efficiency	%
NOx level GCV EN 15502	mg/kWh
NOx level Gross	mg/kWh
BREEAM credits 2014 UK	-
BREEAM credits 2018 UK	-
Nominal water flow at dT=10K	m ³ /h
Hydraulic resistance at water flow dT=10K	kPa
Nominal water flow at dT=25K	m ³ /h
Hydraulic resistance at water flow dT=25K	kPa
Nominal water flow at dT=30K	m ³ /h
Hydraulic resistance at water flow dT=30K	kPa

88,5	88,3	88,0	88,5	88,3	88,2	88,0
97,6	97,4	96,7	97,7	96,5	96,9	96,4
97,7	97,6	96,9	97,9	96,7	97,2	96,7
96,0	95,8	95,2	96,1	95,1	95,5	95,0
22	22	23	23	24	23	24
34	35	34	39	41	37	35
3	3	3	3	2	3	3
1	1	1	1	1	1	1
4,9	5,6	7,8	9,5	11,2	13,4	15,6
74	96	188	93	129	138	196
2,0	2,3	3,1	3,8	4,5	5,4	6,2
12	16	30	15	21	22	31
1,6	1,9	2,6	3,2	3,7	4,5	5,2
8	11	21	11	14	16	22

Additional Data

Efficiency at 90/70°C full load	%
Efficiency at 90/70°C min load	%
Flue temperature at 90/70°C full load	°C
Flue temperature at 90/70°C min load	°C
