

Strebel S-AF and S-AF XL Technical Specifications

		Technical Specifications				
Model		S-AF 115	S-AF 150	S-AF 200	S-AF 240	S-AF 280
Nominal INPUT Min/Max	kW	113	150	200	235	275
Nominal OUTPUT 80/60°C	kW	21 -109.7	30 - 146.7	35.5 - 196	42.5 - 229.8	49.5 - 269.2
Nominal OUTPUT 50/30°C	kW	116.1	156.2	207.8	243.9	285.5
EFFICIENCY 40/30°C	%	107.5% in the S-AF range				
Seasonal EFFICIENCY (Part L)	%	95.06	94.92	95.13	95.09	95.05
Fuel		NG	NG	NG	NG	NG
Room Sealed		Yes	Yes	Yes	Yes	Yes
Gas Consumption (NG)	m³/h	2.22-11.96	3.17-15.87	3.76-21.16	4.5-24.87	5.24-29.1
CO² (NG)	%	9.3% in this range				
NOx - Class (EN483 / EN15420)		5	5	5	5	5
NOx to EN155502	mg/kWh	50	41	54	48	45
Burner Control		Pre-mix - Fully Modulating				
Electrical Power Supply	V/Hz	230/50	230/51	230/52	230/53	230/54
Electrical Power Consumption	W	225	260	320	320	320
Protection Class		XOD	XOD	XOD	XOD	XOD
Maximum Boiler Flow Temperature	°C	90	90	90	90	90
Working Pressure Min/Max	bar	0.8 - 6	0.8 - 6	0.8 - 6	0.8 - 6	0.8 - 6
Boiler Water Content	Litre	15.3	18	22.9	25.6	28.4
Flow/Return Connection (boiler)	inch	2"	2"	2"	2"	2"
Gas Connection	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Flue / Air Supply Connections						
Flue Connection I/D	mm	150	150	200	200	200
Air Supply O/D	mm	100	100	100	100	100
Dimension & Weight						
Height	mm	1200	1200	1200	1200	1200
Width	mm	640	640	640	640	640
Depth (Including Flue Spigot)	mm	1115	1115	1335	1335	1335
Dry Weight	kg	180	190	240	257	274

		Plate Heat Exchanger and Pump				
Boiler Model		S-AF 115	S-AF 150	S-AF 200	S-AF 240	S-AF 280
Flow Rate @ 20c DT	m³/h	4.72	6.30	8.42	9.88	11.57
Pressure Drop @ 20c DT	Kpa	8	8	9	9	10
Brazed Plate Heat Exchanger Sized for S-AF and S-AF XL						
Model Name		UKE-BRX59-30	UKE-BRX59-40	UKE-BRX59-50	UKE-BRX59-60	UKE-BRX59-70
Heat Transfer	kW	120	160	200	240	300
Flow / Return Connections	inch	2" BSP Male	2" BSP Male	2" BSP Male	2" BSP Male	2" BSP Male
Flow Rate @ 20c DT	m³/h	5.15	6.88	8.57	10.30	12.89
Pressure Drop @ 20c DT	Kpa	23.30	20.10	22.40	22.40	25.60
Pump Sizing and Recommended Pump to Flow Through Both						
Flow Rate @ 20c DT	m³/h	4.72	6.30	8.42	9.88	11.57
Pressure Drop @ 20c DT	Kpa	31.30	28.10	31.40	31.40	35.60
DAB Evoplus		5	B60/240.50M	B60/240.50M	B60/240.50M	B80/240.50M
Screwed Flanges		50	DN50-PN10	DN50-PN10	DN50-PN10	DN50-PN10
Gasketed Plate Heat Exchanger Sized for S-AF and S-AF XL						
Model Name		UKE-2A-79	UKE-2A-97	UKE-55-41	UKE-55-47	UKE-55-57
Heat Transfer	kW	120	150	200	240	300
Flow / Return Connections	Inch	1" BSP Male	1" BSP Male	2.5" PN16	2.5" PN16	2.5" PN16
Flow Rate @ 20c DT	m³/h	5.15	6.44	8.60	10.30	12.89
Pressure Drop @ 20c DT	Kpa	7.90	9.00	11.00	12.00	12.80
Pump Sizing and Recommended Pump to Flow Through Both						
Flow Rate @ 20c DT	m³/h	4.72	6.30	8.42	9.88	11.57
Pressure Drop @ 20c DT	Kpa	15.90	17.00	20.00	21.00	22.80
DAB Evoplus		B60/240.50M	B60/240.50M	B60/240.50M	B60/240.50M	B60/240.50M
Screwed Flanges		DN50-PN10	DN50-PN10	DN50-PN10	DN50-PN10	DN50-PN10

The above pumps have been sized to allow 20 Kpa for intercon

Specifications				
S-AF XL 340	S-AF XL 410	S-AF XL 480	S-AF XL 550	S-AF XL 620
320	390	460	520	585
57-313.6	69-383	81-451.7	92-510.6	104-574.5
340.2	412.6	487.6	551.2	620.1
109.1	107.9	108.9	107.8	107
96.36	95.55	96.29	95.49	94.9
NG	NG	NG	NG	NG
No	No	No	No	No
5.99-35.62	7.51-41.78	8.68-49.21	9.92-54.98	11.26-62.10
9.7	9.4	9.5	9.4	9.4
5	5	5	5	5
53	37	64	52	58
Pre-mix - Fully Modulating				
230/56	230/57	230/58	230/59	230/60
500	563	771	658	689
XOD	XOD	XOD	XOD	XOD
85	85	85	85	85
0.8 - 6	0.8 - 6	0.8 - 6	0.8 - 6	0.8 - 6
45	50.6	56.3	61.9	67.6
4"	4"	4"	4"	4"
2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
250	250	250	250	250
160	160	160	160	160
1525	1525	1525	1525	1525
864	864	864	864	864
1894	1894	1894	1894	1894
410	440	470	500	535

Sized for S-AF & S-AF XL Boilers				
S-AF XL 340	S-AF XL 410	S-AF XL 480	S-AF XL 550	S-AF XL 620
13.77	16.64	19.81	21.85	24.84
8.5	8.1	8	7.6	7.5

XL Boilers				
UKE-BRX59-80	UKE-BRX59-90	UKE-BRX59-110	UKE-BRX59-140	UKE-BRX59-140-1
360	400	480	540	600
2" BSP Male	2" BSP Male	2" BSP Male	2" BSP Male	2" BSP Male
15.44	17.17	20.59	23.18	25.74
28.20	27.80	27.60	23.10	28.20

PHE and Boiler				
B120/280.50M	B120/280.50M	B120/280.50M	B120/280.50M	B120/280.50M
13.77	16.64	19.81	21.85	24.84
36.70	35.90	35.60	30.70	35.70
DN50-PN10	DN50-PN10	DN50-PN10	DN50-PN10	DN50-PN10

XL Boilers				
UKE-55-67	UKE-55-73	UKE-55-85	UKE-55-95	UKE-55-105
360	400	480	540	600
2.5" PN16	2.5" PN16	2.5" PN16	2.5" PN16	2.5" PN16
15.48	17.21	20.63	23.18	25.78
13.50	14.10	15.30	15.90	16.40

PHE and Boiler				
B100/340.65M	B100/340.65M	B100/340.65M	B100/340.65M	B100/340.65M
13.77	16.64	19.81	21.85	24.84
22.00	22.20	23.30	23.50	23.90
DN65-PN10	DN65-PN10	DN65-PN10	DN65-PN10	DN65-PN10

Connecting pipework