



Designation	Size	Universal 500	Universal 600	Universal 700	Universal 850	Universal 1000	Universal 1300	Universal 1500	Universal 1800	Universal 2000
Article No.		33.0018.1		33.0018.2		33.0018.4		33.0018.6		
Steam capacity	kg/h	500	600	700	850	1000	1300	1500	1800	2000
Device width, with insulation	approx. mm	1360		1360		1460		1660		
Device depth, across exhaust gas connection	approx. mm	860		860		880		900		
Device height, complete	approx. mm	1830		2145		2360		2520		
Internal diameter flue gas inlet	mm	255		305		355		505		
External diameter flue gas outlet	mm	245		295		345		495		
Floor to middle of exhaust gas inlet/outlet	approx. mm	1460		1750		1940		2025		
Floor to middle of water inlet	approx. mm	875		990		1160		1165		
Clear width (housing inner dimension)	mm	600		600		700		900		
Distance feed water connections	approx. mm	375		375		525		525		
NW feed water connections PN 40 (Mat. 16Mo3)	mm			25				32		
Height of substructure	approx. mm	312		427		597		592		
Weight	approx. kg	550		650		720		860		
Permissible heat output	kW	21	25	32	38	45	55	66	76	83
Heating surface	approx. m ²	15		20		24		31		
Pressure loss, exhaust gas end	max. mbar	0.2	0.3	0.5	0.7	0.7	1.1	0.9		
Flue-gas volume, exhaust gas end	m ³	0.28		0.33		0.42		0.63		
Volume flow, water end	m ³ /h	0.5	0.6	0.7	0.85	1.0	1.3	1.5	1.8	2,0
Pressure loss, water end	approx. bar	0.01		0.02		0.03	0.05	0.07	0.10	0,12

Dimensioning:
Boiler load 100%, fuel natural gas/light fuel oil, feed water 90 °C, exhaust-gas cooling from 265 °C to 122 – 133 °C (Universal 2000: 135 – 148 °C), operating pressure 35 bar (over).

Tender text:

Economiser for increasing the boiler degree of efficiency and reduction of the CO₂ emission for steam boiler systems fired by natural gas and EL fuel oil consisting of:

Spiral-finned tube heat transfer surface, base tube with segmented fin fully welded with each other. Exchanger tubes of material P235GH-TC1, ø 38.0 x min. 2.9 mm. The steel housing, made of 5 mm sheet steel, is gas-tight and welded stably for a maximum overpressure of 50 mbar. Calculation, design and manufacturing to EC Directive 2014/68/EU in corresponding module with extensive quality assurance system.

Shut-off valves, safety valve and piping accessories without CVE

Supplementary equipment Economiser 500 - 1300	mechanical / DN 25	86.0704.2
Supplementary equipment Economiser 1500 - 1800	mechanical / DN 32	86.0704.6

Shut-off valves, safety valve and piping accessories with CVE

Supplementary equipment Economiser 500 -1300 with CVE	mechanical / DN 25	86.0703.8
Supplementary equipment Economiser 1500 -1800 with CVE	mechanical / DN 32	86.0704.0

Electrical accessories

Supplementary equipment Economiser 500 - 1800 SC	electrical / time relay	86.0704.8
Supplementary equipment Economiser 500 - 1800 TC	electrical / time relay	86.0705.5

Flue pipe connection piece, double-walled, 750 mm, can be cut to length

Flue pipe connection piece Eco 500 – 600	Ø 250	39.0217.6
Flue pipe connection piece Eco 700 – 850	Ø 300	39.0217.7
Flue pipe connection piece Eco 1000 – 1300	Ø 350	39.0217.8
Flue pipe connection piece Eco 1500 – 1800	Ø 500	39.0217.9

Supplementary equipment CERTUSS Economiser, complete packages

Supplementary equipment Economiser complete with CVE for TC boiler. Contains shut-off valves, safety valve, piping accessories, electrical accessories and flue pipe connection piece double-walled.

Universal 500 – 600 TC	86.0702.0 S
Universal 700 – 850 TC	86.0702.1 S
Universal 1000 – 1300 TC	86.0702.2 S
Universal 1500 – 1800 TC	86.0702.3 S

Supplementary equipment Economiser complete with CVE for SC boiler. Contains shut-off valves, safety valve, piping accessories, electrical accessories and flue pipe connection piece double-walled.

Universal 500 – 600 SC	86.0701.0 S
Universal 700 – 850 SC	86.0701.1 S
Universal 1000 – 1300 SC	86.0701.2 S
Universal 1500 – 1800 SC	86.0701.3 S

Supplementary equipment Economiser complete without CVE for TC boiler. Contains shut-off valves, safety valve, piping accessories, electrical accessories and flue pipe connection piece double-walled.

Universal 500 – 600 TC	86.0702.5 S
Universal 700 – 850 TC	86.0702.6 S
Universal 1000 – 1300 TC	86.0702.7 S
Universal 1500 – 1800 TC	86.0702.8 S

Supplementary equipment Economiser complete without CVE for SC boiler. Contains shut-off valves, safety valve, piping accessories, electrical accessories and flue pipe connection piece double-walled.

Universal 500 – 600 TC	86.0701.5 S
Universal 700 – 850 TC	86.0701.6 S
Universal 1000 – 1300 TC	86.0701.7 S
Universal 1500 – 1800 TC	86.0701.8 S