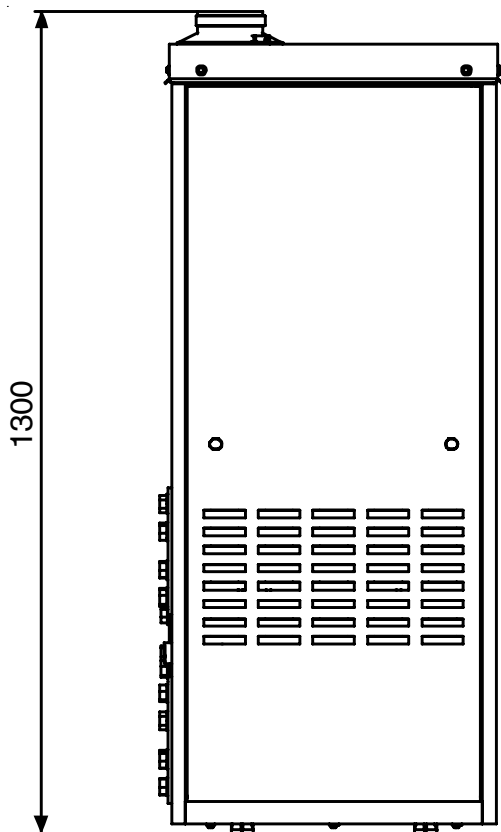


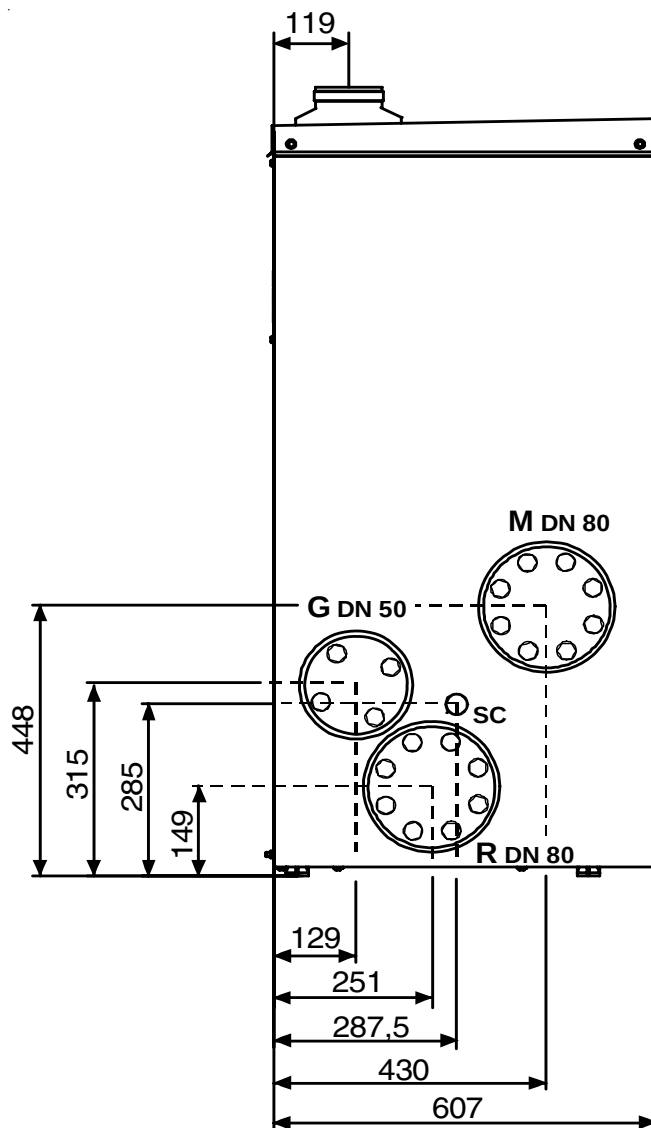
Technical features and dimensions

2.2 - DIMENSIONS

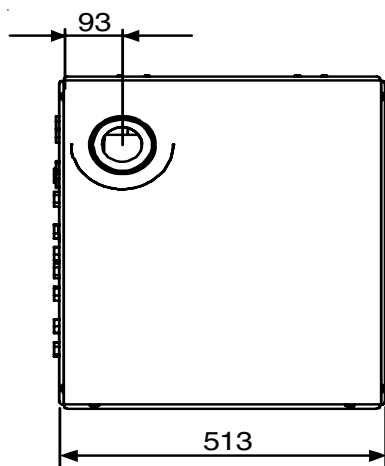
FRONT VIEW



LEFT SIDE VIEW

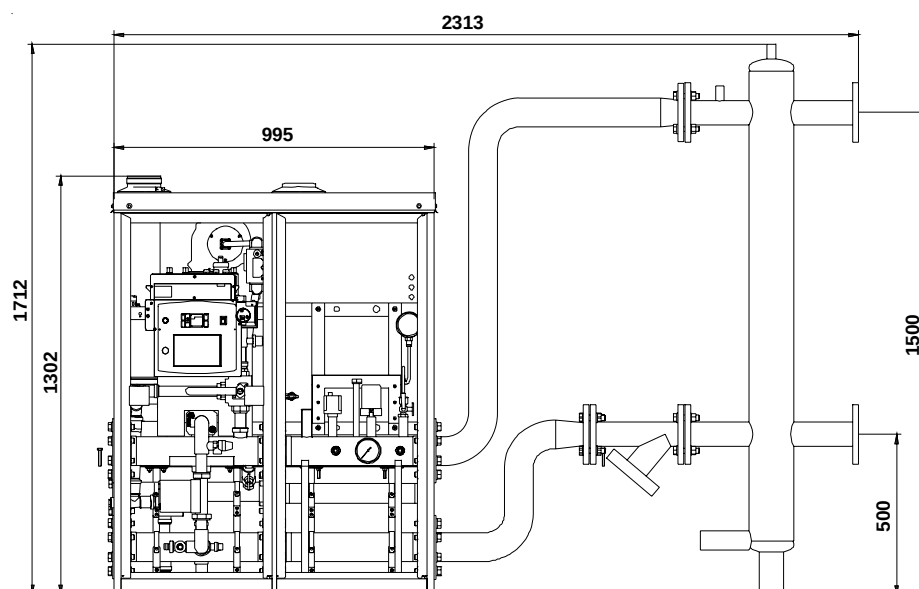


VIEW FROM ABOVE

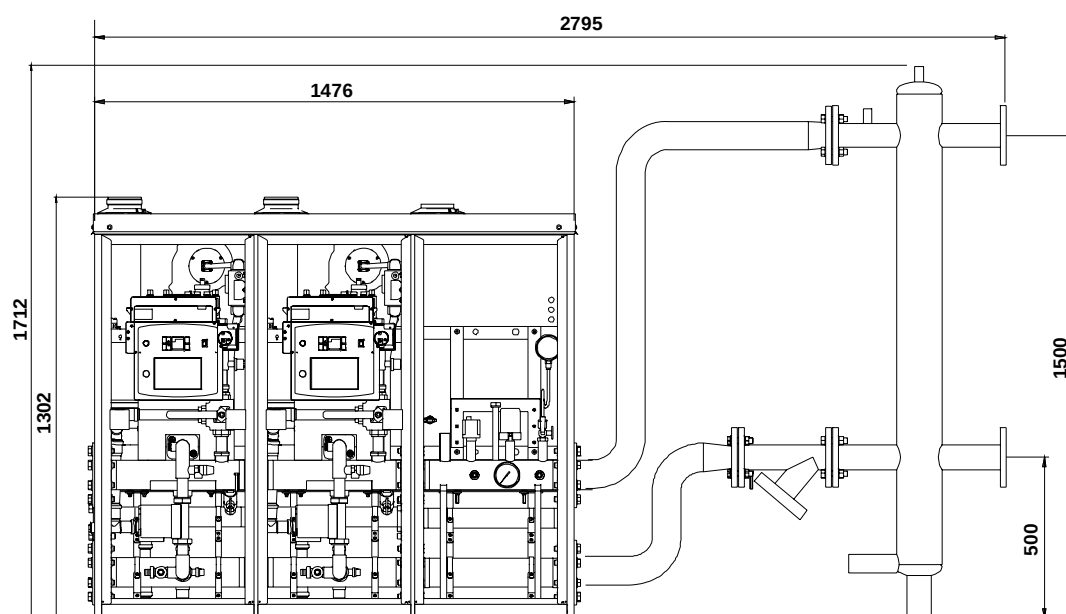


- R** CH safety system return DN 80
- M** CH flow system DN 80
- G** Gas Inlet DN 50
- Sc** Outlet condensate drain siphon Ø 32

DIMENSIONS ALKON 90 master + KIT SAFETY DEVICES + HYDRAULIC HEADER + Y FILTER KIT

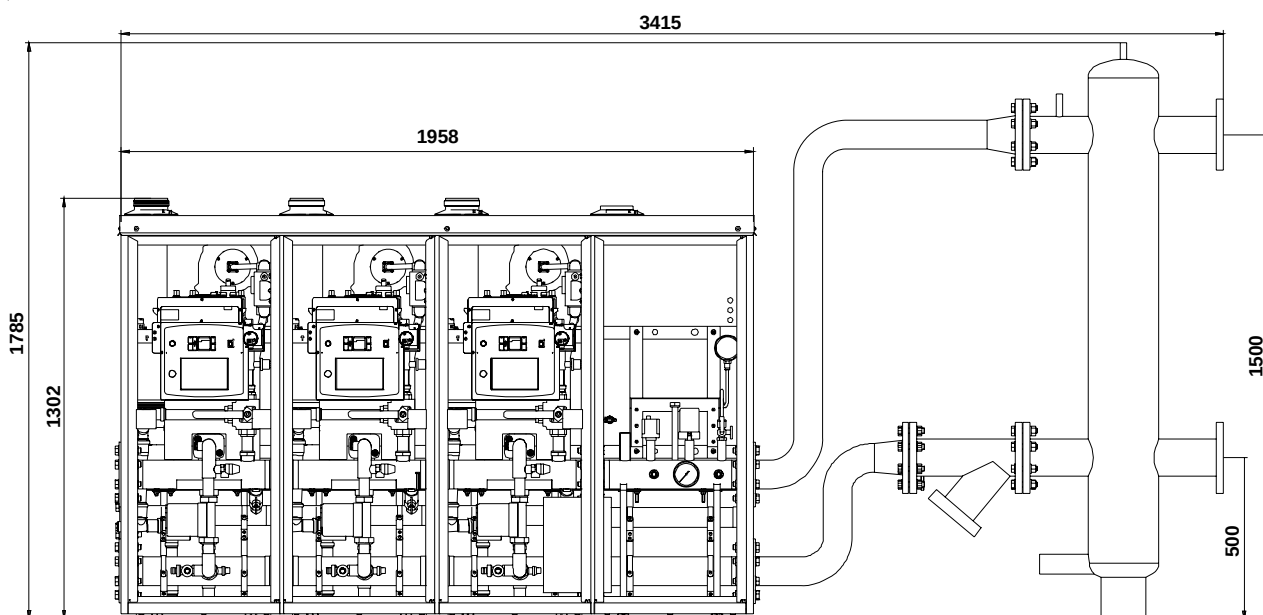


DIMENSIONS ALKON in 90 BATTERY (n.2 boilers) + KIT SAFETY DEVICES + HYDRAULIC HEADER + Y FILTER KIT

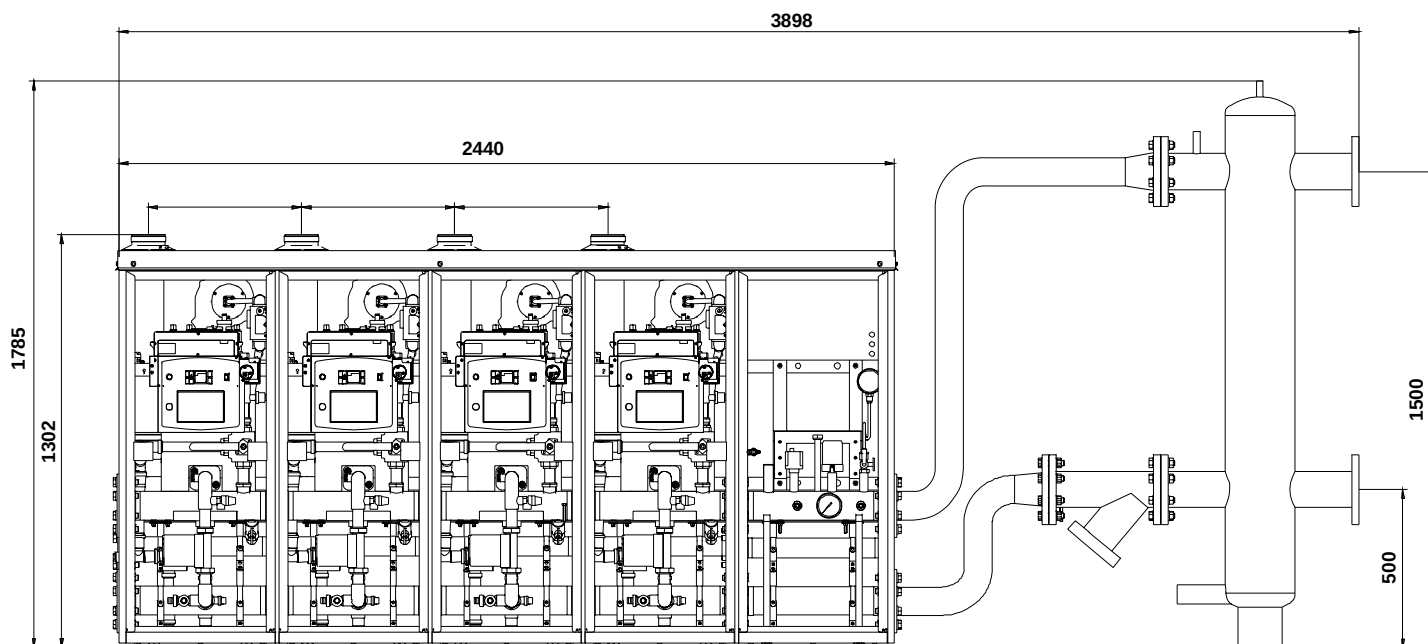


Technical features and dimensions

DIMENSIONS ALKON 90 in BATTERY (n.3 boilers) + KIT SAFETY DEVICES + HYDRAULIC HEADER +Y FILTER KIT



DIMENSIONS ALKON 90 in BATTERY (n.4 boilers) + KIT SAFETY DEVICES + HYDRAULIC HEADER +Y FILTER KIT



Technical features and dimensions

2.5 - PERFORMANCE DATA ACCORDING TO STANDARD UNI 10348

For information regarding the adjustment of: INJECTORS - BURNER PRESSURES - DIAPHRAGMS - OUTPUTS - GAS CONSUMPTIONS please refer to the paragraph ADAPMENT TO THE USE OF OTHER GASES.

		ALKON 90
Minimum heat input	kW	22
Nominal heat input	kW	90
Nominal heat output	kW	87,5
Minimum heat output	kW	21,1
Efficiency at full load (100%)	%	97,26
Required efficiency at full load (100%)	%	96,88
Efficiency at 30% part load	%	105,2
Required efficiency at part load (30%)	%	94,83
Nominal heat output in condensing mode	kW	93,6
Minimum heat output in condensing mode	kW	24,0
Efficiency at nominal load (100%) in condensing mode	%	104,0
Required efficiency (100%) in condensing mode	%	92,97
Efficiency at 30% part load in condensing mode	%	108,64
Required efficiency at part load (30%) in condensing mode	%	98,97
Number of stars (according to CEE 92/42 and D.P.R. n° 660)	n.	4
Combustion efficiency at nominal load (100%)	%	98,15
Combustion efficiency at part load (30%)	%	98,31
Stand-by losses (min-max)	%	2,29 - 0,90
(*) Flue gas temperature $t_f - t_a$ (max)	°C	38,5
Flue gas mass flow rate (min-max)	g/s	8,7 - 39,1
Air excess λ	%	19,4
Condensate production max	kg/h	14,54
CO ₂ (min - max)	%	8,8 - 9,6
CO at 0% of O ₂ (min - max)	mg/kWh	21,5 - 104,4
N0x (value according to EN 297/A3 and EN 483)	mg/kWh	35,62
N0x class		5
Flue losses with burner in operation (min-max)	%	1,69 - 1,85
Flue losses with burner off	kW	0,235
(*) Room Temperature = 20°C		

2.6 - GENERAL FEATURES

		ALKON 90
Appliance's family gas category		II _{2H3P}
Min. water flow rate in CH circuit (Δt 20 °C)	l/min	15,14
Min. pressure in CH circuit	bar	0,5
Max. pressure in CH circuit	bar	8
Min. dynamic gas pressure (natural gas)	mbar	14
Water content in primary circuit	l	10
Max operating temp. in CH mode	°C	85
Min operating temp. in CH mode	°C	30
Total volume CH expansion vessel	l	-
Total pre-loading expansion vessel	bar	-
Max water content CH circuit (calculated for a max temp. of 82°C)	l	-
Min flow rate DHW circuit	l	-
Min. DHW inlet pressure	bar	-
Max DHW inlet pressure	bar	-
DHW specific flow rate (Δt 30 °C)	l/min.	-
DHW flow restrictor	l/min.	-
DHW production in continuous operation with Δt 45 K	l/min.	-
DHW production in continuous operation with Δt 40 K	l/min.	-
DHW production in continuous operation with Δt 35 K	l/min.	-
DHW production in continuous operation with Δt 30 K (*)	l/min.	-
DHW production in continuous operation with Δt 25 K (*)	l/min.	-
DHW adjustable temperature	°C	-
Electrical supply /power consumption	V-Hz	230/50
Fuse rating	A (F)	4
Maximum absorbed power (with optional modulating pump)	W	303
Electrical protection	IP	X5D
Net weight	kg	135