

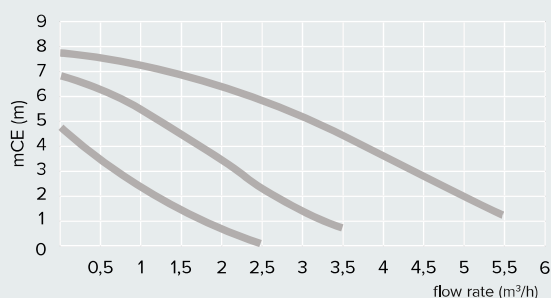
ENERGY
EFFICIENTSYSTEM
MANAGEMENTMADE
IN EUROPEAUTO
FUNCTION

SUPER SILENT

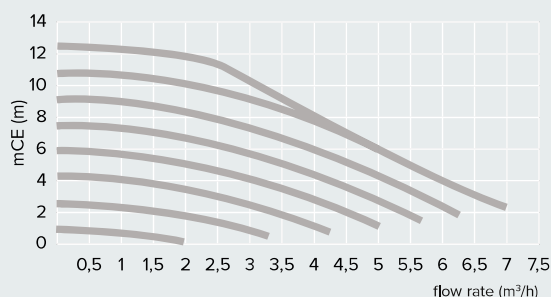
ENERGY
SAVING

LOW EMISSIONS

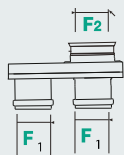
Residual Head
(modulating circulator as accessory)



Residual Head
(full modulating circulator as accessory)

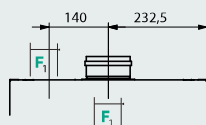


Version - Coaxial exhausts



Maximum pipe length:
Ø110/150 up to 5 m (only for 85-100)

Version - Twin pipes exhausts



Maximum pipe length:
Ø100/110: up to 49 m (85-100 kW)
up to 44 m (115 kW) - up to 28 m (150 kW)

TECHNICAL DATA

80 100 115 150

POWER SPECIFICATIONS

Max/min nominal calorific flow rate (Hi)	kW	80,0/20,0	88,3/22,1	109,0/27,3	140,0/35,0
Max/min nominal calorific flow rate (Hs)	kW	88,9/22,2	98,1/24,6	121,1/30,3	155,6/38,9
Max/min power output (80°C-60°C) (Central Heating)	kW	78,0/19,7	86,1/21,7	106,3/26,9	136,2/34,4
Max/min power output (50°C-30°C) (Central Heating)	kW	84,5/21,6	94,0/23,9	115,8/29,6	148,5/38,0
Max/min power output (40 °C - 30 °C)	kW	84,9/21,7	94,5/23,9	117,1/29,6	150,1/38,0
Combustion efficiency (of flue gas)	%	97,3	97,3	96,8	96,9
Nominal calorific flow rate efficiency (60/80°C) Max/min	%	97,5/98,4	97,5/98,4	97,5/98,4	97,3/98,4
Nominal calorific flow rate efficiency (30/50°C) Max/min	%	105,6/108,1	106,5/108,1	106,2/108,4	106,1/108,3
Nominal calorific flow rate efficiency (30/40 °C) Max/min	%	106,1/108,3	107,0/108,3	107,7/108,6	107,2/108,7
Efficiency at 30% at 30°C	%	108,1	108,1	108,3	108,5
Efficiency at 30% at 47°C	%	104,9	104,9	102,5	103,0
Efficiency rating (dir. 92/42/EEC)	stars	★★★★	★★★★	★★★★	★★★★
Sedbuk Rating	band				
Loss when stopped (ΔT = 50°C)	%	0,25	0,25	<0,15	<0,15
Loss of burner gas when operating	%	2,8	2,8	3,2	3,1

EMISSIONS

Available air pressure	Pa	140	140	180	200
NOx class (Less than 70 mg/kWh)	class	5	5	5	5
Flue gas temperature (G20) (80°C-60°C)	°C	61/63	68/63	76/65	74/63
CO2 content (G20) (max/min	%	9,0/8,4	9,0/8,4	9,0/8,4	9,0/8,4
CO2 content (G31) max/min	%	9,8/9,2	9,8/9,2	9,8/9,2	9,8/9,2
CO content (0%O2) (80°C-60°C)	ppm	95	90	117	131
O2 content (G20)	%	4,8	4,8	4,8	4,8
Maximum flue gas flow (G20) (80°C-60°C)	m³/h	102	113	143	182
Excess air max load	%	27	27	27	27

HEATING CIRCUIT

Maximum/Minimum heating pressure	bar	6/0,7	6/0,7	6/0,7	6/0,7
Min/max heating temperature (high temperature range)	°C	35/82	35/82	35/85	35/85
Min/max heating temperature (low temperature range)	°C	20/45	20/45	20/45	20/45

DOMESTIC HOT WATER CIRCUIT

Domestic hot water min/max temperature	°C	40/60	40/60	40/60	40/60
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ELECTRICAL

Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Total electrical power absorbed	W	101	111	215	246
Minimum ambient temperature for use	°C	+5	+5	+5	+5
Protection level for the electrical appliance	IP	IPX4D	IPX4D	IP20	IP20

CONDENSATE

"Max condensate production (40°C- 30°C, max load - 20°C ambient)"	l/h	16,4	19,1	24,6	31,1
Condensate pH		3,2	3,2	3,2	3,2
Weight	kg	80	83	83	90
Dimension (W x H x D)	mm	465/888/602	465/888/602	465/888/602	465/888/602

CODE NATURAL GAS

3581564 3581567 3581568 3581569

For complete list of accessories see page 79